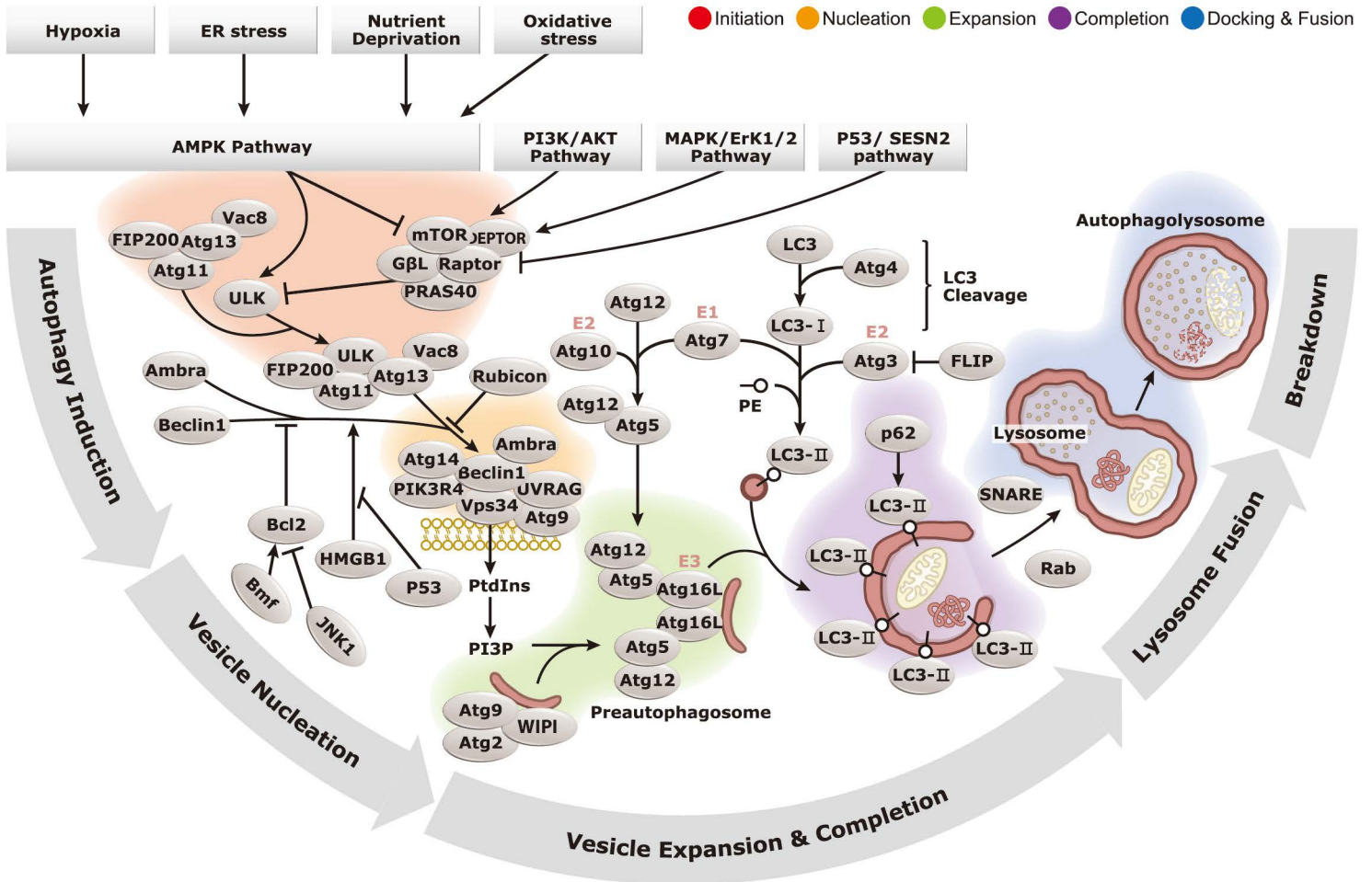


Autophagy / Mitophagy

- Your Expertise
- Our Antibodies
- Accelerated Discovery

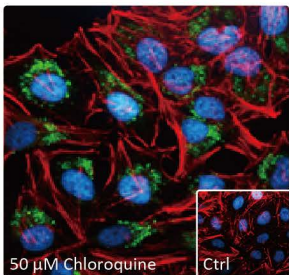
www.genetex.com



Autophagy has been implicated in many different diseases, including neurodegeneration, cardiac myopathy, autoimmune disease and cancer. The role of autophagy in cancer is complex and paradoxical. While autophagic deficiency has been shown to promote tumorigenesis in animal models, autophagy may actually support tumor growth by enhancing cancer cell survival in the face of nutrient depletion or accumulation of toxic molecules.

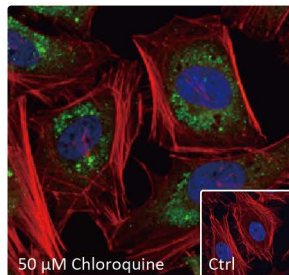
Highlighted Products

- Citation Support
- KO/KD Validation
- Comparable Abs
- Orthogonal Validation
- Protein Overexpression



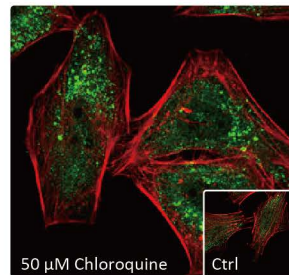
50 μM Chloroquine Ctrl
LC3B antibody (GTx127375)

- Citation Support
- KO/KD Validation
- Comparable Abs
- Orthogonal Validation
- Protein Overexpression



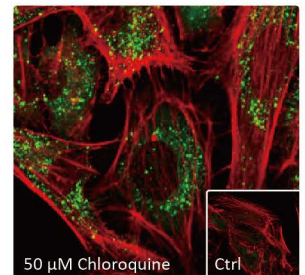
50 μM Chloroquine Ctrl
SQSTM1 / P62 antibody [GT1478] (GTx629890)

- Citation Support
- KO/KD Validation
- Comparable Abs
- Orthogonal Validation
- Protein Overexpression



50 μM Chloroquine Ctrl
ATG5 antibody (GTx113309)














- Citation Support
- KO/KD Validation
- Comparable Abs
- Orthogonal Validation
- Protein Overexpression

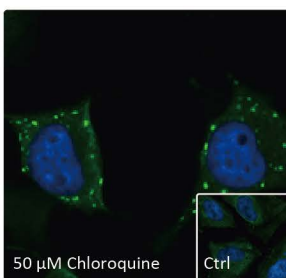



50 μM Chloroquine Ctrl
ATG12 antibody [GT166] (GTx629815)

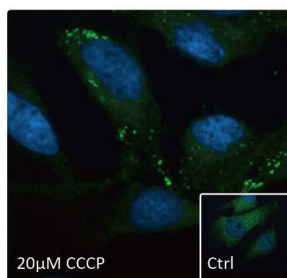
- Citation Support
- KO/KD Validation
- Comparable Abs
- Orthogonal Validation
- Protein Overexpression



Autophagy

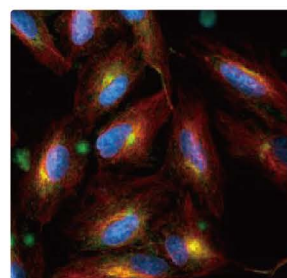
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX112999	AMPK alpha 1 antibody	Rb pAb	Hu,Ms	WB
  GTX103487	AMPK alpha 2 antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IP
  GTX130429	AMPK alpha 1 (phospho Thr183) + AMPK alpha 2 (phospho Thr172) antibody	Rb pAb	Hu,Ms	WB
GTX134594	AMPK beta 1 antibody	Rb pAb	Hu	WB
 GTX101661	AMPK gamma 1 antibody	Rb pAb	Hu,Ms	WB, IP
 GTX114178	AMPK gamma 2 antibody [C2C3], C-term	Rb pAb	Hu,Ms	WB, IHC-P
GTX131503	ATG2A antibody	Rb pAb	Hu	WB, IP
GTX132307	ATG2B antibody	Rb pAb	Hu	WB
 GTX128065	ATG3 antibody	Rb pAb	Hu,Ms,Rat	WB
 GTX129276	ATG4B antibody	Rb pAb	Hu,Ms	WB, IHC-P
 GTX129488	ATG4C antibody	Rb pAb	Hu	WB, IP
GTX133617	ATG4D antibody	Rb pAb	Hu,Ms	WB
GTX106114	ATG4D antibody [N3C3]	Rb pAb	Hu,Ms,Rat	ICC/IF, IHC-P
  GTX113309	ATG5 antibody	Rb pAb	Hu,Ms	WB, ICC/IF, IHC-P, PLA
 GTX113613	ATG7 antibody [N3C2], Internal	Rb pAb	Hu,Ms	WB
 GTX128427	ATG9A antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IP
 GTX132439	ATG9B antibody	Rb pAb	Hu	WB, ICC/IF
GTX129097	ATG10 antibody	Rb pAb	Hu	WB, IP
GTX132449	ATG10 antibody	Rb pAb	Hu	WB, IHC-P
   GTX629815	ATG12 antibody [GT166]	Ms mAb	Hu,Ms	WB, ICC/IF, PLA
   GTX124181	ATG12 antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IP
 GTX132468	ATG14 antibody	Rb pAb	Hu,Ms,Rat	WB
  GTX129098	ATG16L1 antibody	Rb pAb	Hu,Ms,Rat	ICC/IF, IHC-P
  GTX110619	ATG16L1 antibody [N2C1], Internal	Rb pAb	Hu	WB, ICC/IF, IHC-P
GTX132583	ATG16L2 antibody	Rb pAb	Ms	WB
GTX628905	Bcl-2 antibody [GT11210]	Ms mAb	Hu	WB, IHC-P
    GTX100064	Bcl-2 antibody [N1N2], N-term	Rb pAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, ICC/IF, IHC-P
 GTX129653	Bcl-2 (phospho Ser70) antibody	Rb pAb	Hu	WB
 GTX129654	Bcl-2 (phospho Ser87) antibody	Rb pAb	Hu	WB
GTX104636	Bif-1 antibody [C2C3], C-term	Rb pAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX108852	BMF antibody [N1C3-2]	Rb pAb	Hu	WB
  GTX635398	C9orf72 antibody [GT1553-RB]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
   GTX632041	C9orf72 antibody [GT779]	Ms mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IP
 GTX116540	Deptor antibody [N1C3]	Rb pAb	Hu	WB
   GTX100699	ERK1 antibody	Rb pAb	Hu	WB
 GTX104613	ERK2 antibody [N1], N-term	Rb pAb	Hu,Cat,Dog	WB, ICC/IF, IHC-P
   GTX113094	ERK2 antibody [N2C3]	Rb pAb	Hu,Ms,Rat,Cat,Dog,Pig	WB, IHC-P, IP
  GTX134462	ERK1/2 antibody	Rb pAb	Hu,Ms,Rat,Cat,Dog	WB
     GTX635617	ERK1 (phospho Thr202/Tyr204) + ERK2 (phospho Thr185/Tyr187) antibody [HL173]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
  GTX129093	FIP200 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
 GTX113047	FLIP antibody [N1C1]	Rb pAb	Hu	WB, IHC-P
  GTX637963	HMGB1 antibody [HL2059]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, ELISA
   GTX628834	HMGB1 antibody [GT383]	Ms mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
    GTX101277	HMGB1 antibody	Rb pAb	Hu,Ms,Rat,Zfsh,Pig	WB, ICC/IF, IHC-P, IHC-Wm, IHC, IHC(Free Floating)
  GTX127344	HMGB1 antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr, IP
  GTX105523	JNK2 antibody [N1C3]	Rb pAb	Hu,Ms,Rat,P. xylostella	WB, ICC/IF, IHC-P, IHC
  GTX133806	JNK1 + JNK2 antibody	Rb pAb	Hu,Rat	WB, IHC-P
   GTX635799	JNK (phospho Thr183/Tyr185) antibody [HL1008]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
    GTX634336	LAMP1 antibody [GT25212]	Ms mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
 GTX635790	LAMP2 antibody [GT856]	Ms mAb	Hu	WB, IHC-P





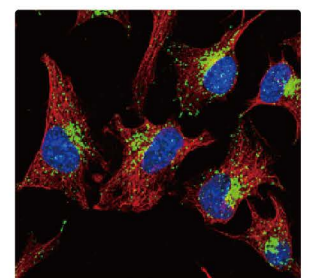
50 μ M Chloroquine
Ctrl
ATG9B antibody
(GTX132439) 






20 μ M CCCP
Ctrl
ATG16L1 antibody
(GTX129098)  

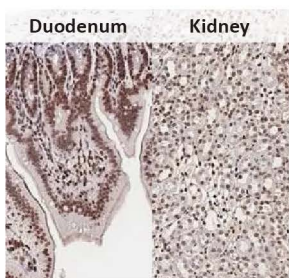


RAB6A antibody [HL1047]
(GTX635981)  

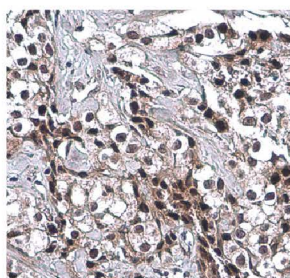


LAMP1 antibody [GT25212]
(GTX634336)    

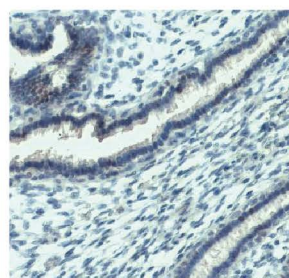
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX103214	LAMP2 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
GTX132889	LC3A antibody	Rb pAb	Hu,Ms	WB
GTX632501	LC3B antibody [GT3612]	Ms mAb	Hu	WB, ICC/IF
GTX127375	LC3B antibody	Rb pAb	Hu,Ms,Rat,Pig,Mosq	WB, ICC/IF, IHC-P, IHC-Fr, FACS, IP
GTX132580	mLST8 / GBL antibody	Rb pAb	Hu,Ms,Rat	WB, IHC-P
GTX638220	mTOR antibody [HL2216]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX630198	mTOR antibody [GT649]	Ms mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX101557	mTOR antibody [C3], C-term	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IP, ChIP assay
GTX132803	mTOR (phospho Ser2448) antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX70214	p53 antibody [DO1]	Ms mAb	Hu,Ms	WB, ICC/IF, IHC-P, IHC-Fr, FACS, IP, ELISA
GTX102965	p53 antibody	Rb pAb	Hu,Ms,Zfsh	WB, ICC/IF, IHC-P, IP, ChIP assay
GTX133905	p53 (phospho Ser6) antibody	Rb pAb	Hu	WB
GTX132995	p53 (phospho Ser15) antibody	Rb pAb	Hu	WB, ICC/IF
GTX133902	p53 (phospho Ser33) antibody	Rb pAb	Hu	WB
GTX634168	p53 (phospho Ser46) antibody [GT1018]	Ms mAb	Hu	WB, ICC/IF, IHC-P
GTX117515	p53 (mono-methyl Lys372) antibody	Rb pAb	Hu,Frg,Squirrel	WB, ICC/IF, IHC-P
GTX133904	p53 (phospho ser392) antibody	Rb pAb	Hu	WB
GTX132466	PI3 kinase p150 antibody	Rb pAb	Hu,Ms	WB, IHC-P, IP
GTX118391	PRAS40 antibody	Rb pAb	Hu,Ms	WB, IHC-P
GTX132277	PRAS40 (phospho Ser183) antibody	Rb pAb	Hu	WB
GTX133176	PRAS40 (phospho Thr246) antibody	Rb pAb	Hu,Ms	WB
GTX101454	Rab 1A antibody [N1C3]	Rb pAb	Hu,Ms,Rat	WB
GTX636971	RAB5A antibody [HL1497]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX109665	RAB5A antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IP
GTX106661	Rab5b antibody	Rb pAb	Hu	WB
GTX635981	RAB6A antibody [HL1047]	Rec Rb mAb	Hu,Ms,Rat,Zfsh	WB, ICC/IF, IHC-P
GTX132548	RAB7A antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX119095	RAB11B antibody [N1C3]	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
GTX127328	Rab11a + Rab11b antibody	Rb pAb	Zfsh	WB, ICC/IF, IHC-Wm, IHC
GTX130477	RAB32 antibody	Rb pAb	Hu	WB, ICC/IF, IP
GTX116390	RAB33B antibody [N2C3]	Rb pAb	Hu,Ms	WB, IHC-P
GTX132303	Raptor antibody	Rb pAb	Hu,Rat	WB, IHC-P, IP
GTX133196	Raptor (phospho Ser792) antibody	Rb pAb	Hu	WB
GTX129096	Rubicon antibody	Rb pAb	Hu,Ms	WB, IP
GTX116925	SESN2 antibody	Rb pAb	Hu	WB
GTX635798	SMCR8 antibody [HL1007]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636328	SQSTM1 / P62 antibody [HL1113]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX629890	SQSTM1 / P62 antibody [GT1478]	Ms mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-Fr, FACS
GTX100685	SQSTM1 / P62 antibody [N3C1], Internal	Rb pAb	Hu,Ms,Rat,Zfsh,Bov,Honeybee,Mosq	WB, ICC/IF, IHC-P, FACS, IP, PLA
GTX133943	SQSTM1 / P62 (phospho Ser272) antibody	Rb pAb	Hu	WB
GTX134001	SQSTM1 / P62 (phospho Ser349) antibody	Rb pAb	Hu	WB
GTX128171	SQSTM1 / P62 (phospho Ser403) antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, FACS, IHC
GTX132669	ULK1 antibody	Rb pAb	Hu	WB
GTX132660	ULK1 (phospho Ser555) antibody	Rb pAb	Hu	WB
GTX133540	ULK1 (phospho Ser638) antibody	Rb pAb	Hu	WB
GTX132654	ULK1 (phospho Ser758) antibody	Rb pAb	Hu	WB
GTX638210	ULK2 antibody [HL2206]	Rec Rb mAb	Hu,Rat	WB
GTX111476	ULK2 antibody [C2C3], C-term	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX105365	ULK4 antibody [N2C1], Internal	Rb pAb	Hu	WB, IHC-P
GTX129528	VPS34 antibody	Rb pAb	Hu	WB, IP
GTX128167	WIPI1 antibody	Rb pAb	Hu,Ms	WB
GTX132453	WIPI2 antibody	Rb pAb	Hu,Rat	WB, ICC/IF, IHC-P



HMGB1 antibody [HL2059] (GTX637963)



p53 antibody [DO1] (GTX70214)



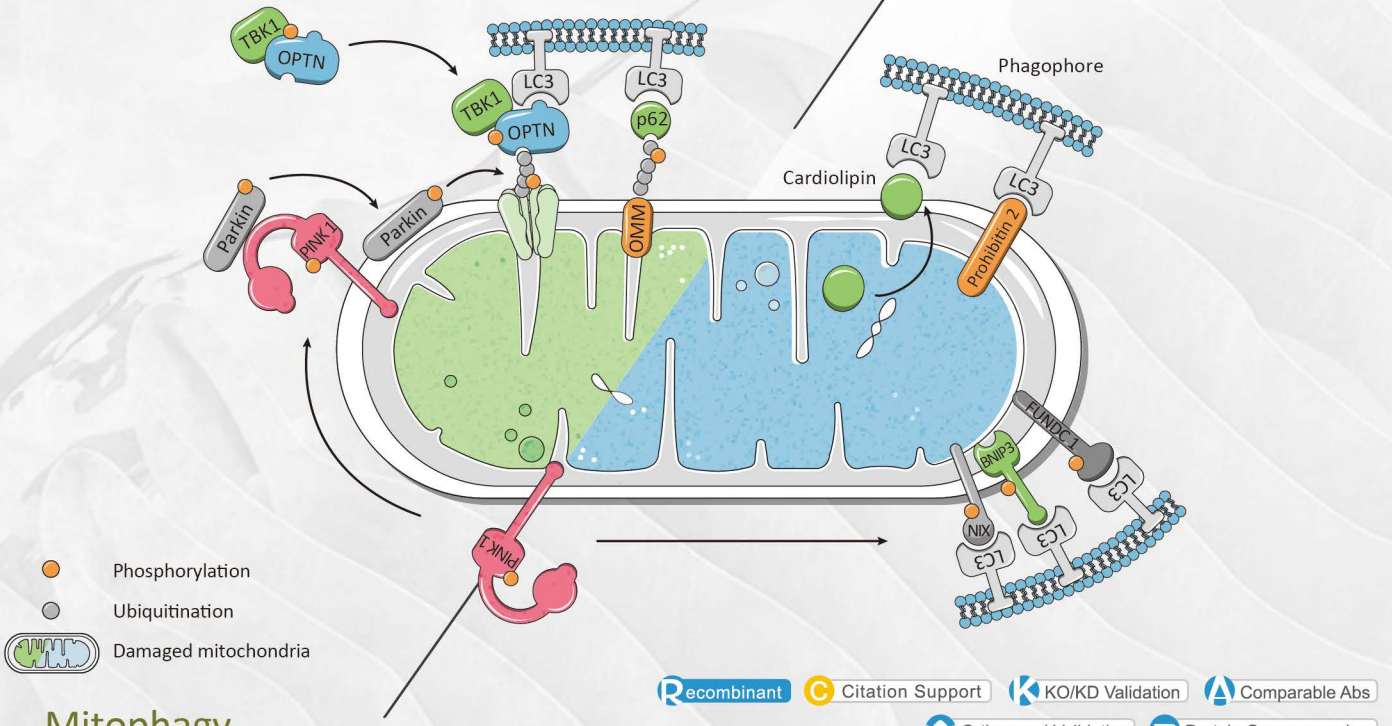
JNK (phospho Thr183/Tyr185) antibody [HL1008] (GTX635799)



C9orf72 antibody [GT1553-RB] (GTX635398)

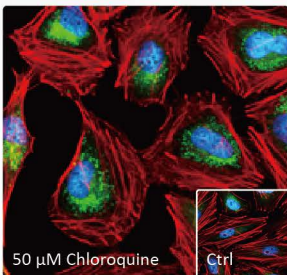
PINK1/Park pathway

Receptor-mediated mitophagy

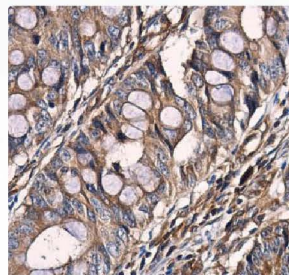


Mitophagy

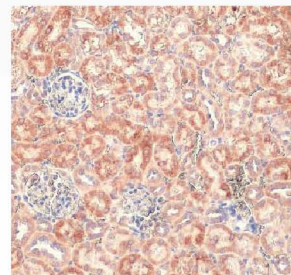
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX129487	AMBRA1 antibody	Rb pAb	Hu	WB
GTX133555	Beclin 1 antibody	Rb pAb	Hu,Ms	WB, IHC-P
GTX133857	Beclin 1 (phospho Ser90) antibody	Rb pAb	Hu	WB
GTX636515	BNIP3L antibody [HL1203]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX111876	BNIP3L antibody	Rb pAb	Hu,Ms,Rat,Bov	WB, ICC/IF, IHC-P
GTX630983	FIS1 antibody [GT4211]	Ms mAb	Hu,Rat	WB, ICC/IF
GTX111010	FIS1 antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX104240	FKBP8 antibody	Rb pAb		WB-Ag
GTX132657	GABARAP antibody	Rb pAb	Hu	WB, ICC/IF
GTX112673	MUL1 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
GTX114539	NBR1 antibody	Rb pAb	Hu,Ms	WB, IHC-P
GTX630397	NDP52 antibody [GT1813]	Ms mAb	Hu	WB, ICC/IF
GTX630396	NDP52 antibody [GT422]	Ms mAb	Hu	WB, ICC/IF, IP
GTX115378	NDP52 antibody	Rb pAb	Hu,Ms	WB, ICC/IF, IHC-P, IP
GTX132575	Optineurin antibody	Rb pAb	Hu,Ms	WB, ICC/IF, IHC-P, IP
GTX105447	Optineurin antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P, IP
GTX119887	PGAM5 antibody	Rb pAb	Hu	WB
GTX107851	PINK1 antibody [N3C3]	Rb pAb	Hu,Ms,Rat	WB, ICC/IF
GTX102100	Prohibitin 2 antibody	Rb pAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX113268	SIAH1 antibody	Rb pAb	Hu	WB, IHC-P
GTX104715	SIAH1 antibody [N1], N-term	Rb pAb	Ms	ICC/IF
GTX118155	UBE2E3 antibody	Rb pAb	Ms	WB
GTX128826	Ubiquitin antibody	Rb pAb	Hu,Ms,Rat	WB
GTX630148	Ubiquitin antibody [GT7811]	Ms mAb	Hu,Ms,Rat	WB, IHC-P



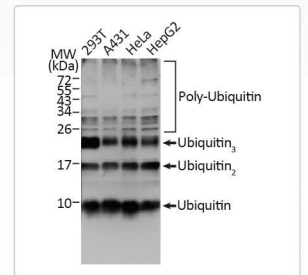
NDP52 antibody (GTX115378)



Optineurin antibody (GTX132575)



BNIP3L antibody [HL1203] (GTX636515)



Ubiquitin antibody [GT7811] (GTX630148)