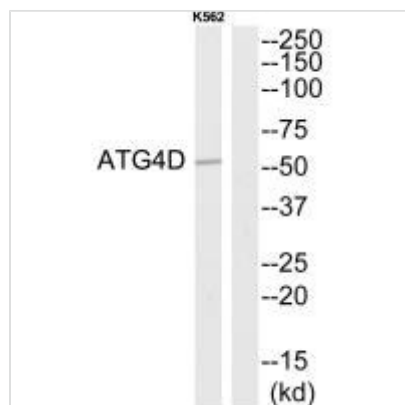




ATG4D Antibody

Product Code	CSB-PA130462
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q86TL0
Immunogen	Synthesized peptide derived from N-terminal of Human ATG4D.
Raised In	Rabbit
Species Reactivity	Human
Specificity	The antibody detects endogenous levels of total ATG4D protein.
Tested Applications	ELISA, WB; WB: 1:500-1:3000
Relevance	Cysteine protease ATG4D: Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms. Cysteine protease ATG4D, mitochondrial: Plays a role as an autophagy regulator that links mitochondrial dysfunction with apoptosis. The mitochondrial import of ATG4D during cellular stress and differentiation may play important roles in the regulation of mitochondrial physiology, ROS, mitophagy and cell viability. Marino G., J. Biol. Chem. 278:3671-3678(2003). The MGC Project Team, Genome Res. 14:2121-2127(2004).
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	APG4 autophagy 4 homolog D; APG4-D; APG4D; ATG4 autophagy related 4 homolog D (S. cerevisiae); ATG4D
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	ATG4D
Image	



Western blot analysis of extracts from K562 cells, using ATG4D antibody.