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BACE1 Rabbit mAb

Catalog # AP75137

Product Information

Application	WB, IP
Primary Accession	P56818
Reactivity	Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	55748

Additional Information

Gene ID	23821
Other Names	Bace1
Dilution	WB~~1/500-1/1000 IP~~N/A
Format	Liquid

Protein Information

Name	Bace1 {ECO:0000312|MGI:MGI:1346542}
Synonyms	Bace
Function	Responsible for the proteolytic processing of the amyloid precursor protein (APP) (PubMed:29325091). Cleaves at the N-terminus of the A-beta peptide sequence, between residues 671 and 672 of APP, leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase (PubMed:29325091). Cleaves CHL1 (PubMed:29325091).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P56817}; Single-pass type I membrane protein. Golgi apparatus, trans-Golgi network. Endoplasmic reticulum {ECO:0000250|UniProtKB:P56817}. Endosome. Late endosome. Early endosome. Cell surface. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P56817}. Membrane raft. Lysosome Recycling endosome. Cell projection, axon. Cell projection, dendrite. Note=Predominantly localized to the later Golgi/trans-Golgi network (TGN) and minimally detectable in the early Golgi compartments. A small portion is also found in the endoplasmic reticulum, endosomes and on the cell surface (By similarity). Colocalization with APP in early endosomes is due to addition of bisecting N-acetylglucosamine which blocks targeting to late endosomes and lysosomes (PubMed:25592972). Retrogradly transported from endosomal compartments to the trans-Golgi network in a phosphorylation- and GGA1-

	dependent manner (By similarity) {ECO:0000250|UniProtKB:P56817, ECO:0000269|PubMed:25592972}
Tissue Location	Expressed in the brain, specifically in neurons and astrocytes (at protein level).

Images