BACE (Phospho Ser498) Rabbit pAb

CatalogNo: YP1559 **Orthogonal Validated**

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 73kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000
ELISA 1:5000-20000

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human BACE (Phospho Ser498)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat BACE (Phospho Ser498).The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):DIsLL

Target Information

Gene name BACE1 BACE KIAA1149

Protein Name BACE (Phospho Ser498)

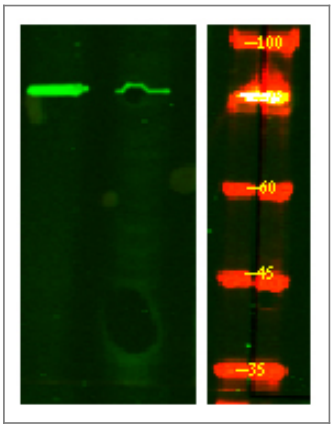
Organism	Gene ID	UniProt ID
Human	23621;	P56817;
Mouse	23821;	P56818;
Rat	29392;	P56819;

Cellular Localization Cell membrane ; Single-pass type I membrane protein . Golgi apparatus , trans-Golgi network . Endoplasmic reticulum . Endosome . Cell surface . Cytoplasmic vesicle membrane ; Single-pass type I membrane protein . Membrane raft . Lysosome . Late endosome . Early endosome . Recycling endosome . Cell projection , axon . Cell projection , dendrite . 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 (PubMed:17425515 , PubMed:11466313) . Colocalization with APP in early endosomes is due to addition of bisecting N-acetylglucosamine wich blocks targeting to late endosomes and lysosomes (By similarity) . Retrogradly transported from endosomal compartments to the trans-Golgi network in a phosphorylation- and GGA1- dependent manner (PubMed:15886016) . .

Tissue specificity Expressed at high levels in the brain and pancreas. In the brain , expression is highest in the substantia nigra , locus coruleus and medulla oblongata.

Function Catalytic activity:Broad endopeptidase specificity. Cleaves Glu-Val-Asn-Leu-|-Asp-Ala-Glu-Phe in the Swedish variant of Alzheimer's amyloid precursor protein. ,enzyme regulation:Inhibited by RTN3 and RTN4. ,Function:Responsible for the proteolytic processing of the amyloid precursor protein (APP) . 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. ,similarity:Belongs to the peptidase A1 family. ,subunit:Monomer. Interacts with GGA1 , GGA2 and GGA3. Interacts with RTN3 and RTN4. ,tissue specificity:Brain. ,

Validation Data



Western Blot analysis of Hela treated or untreated by LPS lysis, using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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