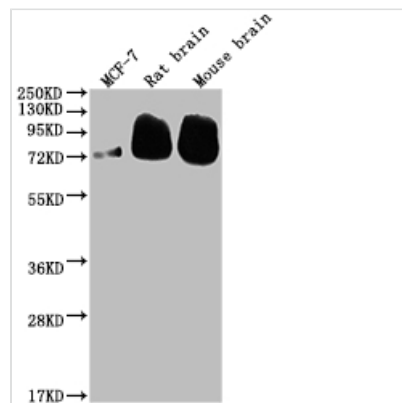




BACE1 Antibody

Product Code	CSB-RA177574A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P56817
Immunogen	A synthesized peptide derived from human BACE1
Species Reactivity	Human, Mouse, Rat
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cell biology
Gene Names	BACE1
Accession NO.	7G3

Image



Western Blot

Positive WB detected in: MCF-7 whole cell lysate, Rat brain tissue, Mouse brain tissue

All lanes: BACE1 antibody at 1:2000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 56, 53, 52, 49, 46, 43 kDa

Observed band size: 72 kDa

Description

BACE1 is widely expressed in the brain, especially in neurons,



oligodendrocytes, and astrocytes, with particular abundance in various neuronal cell types. BACE1 triggers the synthesis of β -amyloid peptides ($A\beta$), which are linked to cognitive dysfunction in Alzheimer's disease (AD) because of oligomerization and aggregation abnormalities. BACE1 has other substrates outside the amyloidogenic pathway that may be crucial for synaptic plasticity and synaptic homeostasis. It has been shown that BACE1 also serves as a housekeeping enzyme, assisting in the processing of a variety of other proteins necessary for neural tissue function.

Mammalian cells are transfected with plasma vectors containing BACE1 antibody genes, allowing for both recombinant BACE1 antibody expression and secretion to the medium. Collecting the cell supernatant and purifying to obtain the recombinant BACE1 antibody by Affinity-chromatography. This recombinant BACE1 antibody has been validated to detect the BACE1 protein of Human, Mouse, Rat in the ELISA, WB.