

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BACE-2 Ectodomain in direct ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant mouse BACE-2 is observed and no cross-reactivity with recombinant human (rh) BACE, rhCathepsin D, or rhCathepsin E
Source	Monoclonal Rat IgG _{2A} Clone # 391017
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human BACE-2 Ala21-Tyr473 Accession # Q9Y5Z0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

BACE-2 (β-site APP cleaving enzyme 2; also Asp-1 and Memapsin-1) is a 73-75 kDa member of the peptidase A1 family. It is expressed both in- and outside the CNS, and is classified as a Golgi aspartyl protease. Its status as a β-secretase is unclear; if it has physiological activity, it may be associated with glia. Mature BACE-2 is a 456 amino acid (aa) type I transmembrane glycoprotein. It contains a 411 aa extracellular domain (aa 63-473) that has two catalytic residues (Asp93 and Asp289). Two potential splice forms exist; one shows a deletion of aa 329-378, while a second shows an 18 aa substitution for aa 380-518. Over aa 63-466, human BACE-2 shares 92% aa sequence identity with mouse BACE-2.

PRODUCT SPECIFIC NOTICES

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