NEUROMICS

BACE-1 Data Sheet

Catalog Number:	RA21010	**Host:**	Rabbit
Product Type:	Rabbit Polyclonal IgG	**Species Reactivity:**	Human, Mouse, and Rat
Immunogen Sequence:	Synthetic peptide	**Format:**	Lyophilized powder

Applications:

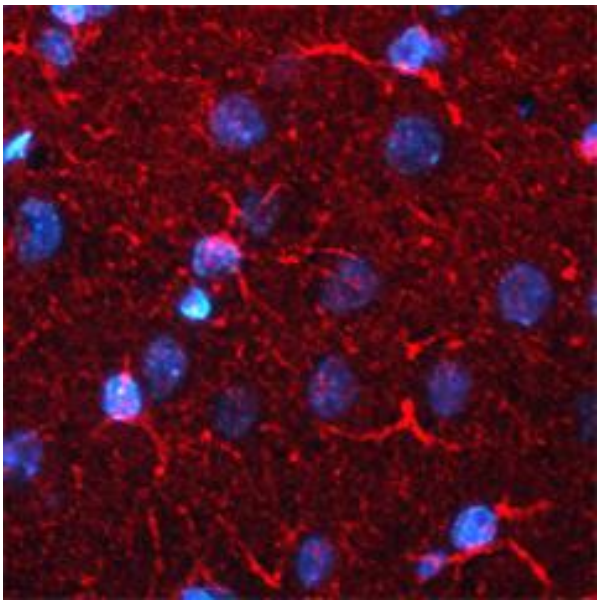
Immunohistochemistry: 5-10 ug/ml
Immunofluorescence: 5-15 ug/ml
Western Blot: 1 ug/ml

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: The product can be stored as supplied for up to 12 months at 2°C-4°C. After reconstitution, aliquot and store at -20°C for higher stability or at 4°C with an appropriate antibacterial agent. Avoid freeze thaw-cycles.

Application Notes

Description/Data:
BACE1, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease. BACE-1 is a member of the peptidase A1 protein family and is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. In brains of patients with Alzheimer's disease, BACE-1 is detected in reactive astrocytes, suggesting that astrocyte activation may play a role in the development of Alzheimer's disease.



Images: Immunohistochemical detection of BACE-1 in astrocytes in rat cortex. Rat brain was fixed with 4% formaldehyde and cut into 10 µm thick cryostat sections. Tissue was incubated with rabbit polyclonal antibody to BACE-1 at 10 µg/mL overnight at 4°C followed by incubation with Donkey anti-rabbit Rhodamine Red conjugated secondary antibodies at 1:200 dilution. Nuclei were counterstained with DAPI (blue).

FOR RESEARCH USE ONLY

Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail: pshuster@neuromics.com