

Anti-VAMP2 Antibody

Catalog Number: A02331

About Vamp2

SOD3 (SUPEROXIDE DISMUTASE 3) also called SUPEROXIDE DISMUTASE, EXTRACELLULAR, EC-SOD, and Cu-Zn, is an enzyme that in humans is encoded by the SOD3 gene. This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the dismutation of two superoxide radicals into hydrogen peroxide and oxygen. Hendrickson et al. (1990) mapped the SOD3 gene to 4pter-q21 by a study of somatic cell hybrids. Stern et al. (2003) narrowed the assignment to 4p15.3-p15.1 by somatic cell and radiation hybrid analysis, linkage mapping, and FISH. The product of this gene is thought to protect the brain, lungs, and other tissues from oxidative stress. The protein is secreted into the extracellular space and forms a glycosylated homotetramer that is anchored to the extracellular matrix (ECM) and cell surfaces through an interaction with heparan sulfate proteoglycan and collagen. A fraction of the protein is cleaved near the C-terminus before secretion to generate circulating tetramers that do not interact with the ECM.

Overview

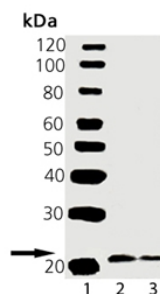
Product Name	Anti-VAMP2 Antibody
Reactive Species	Bovine, Guinea pig, Human, Mouse, Rabbit, Rat
Description	Boster Bio Anti-VAMP2 Antibody (Catalog# A02331). Tested in ICC, IP, WB application(s). This antibody reacts with Human, Mouse, Rat, Bovine, Guinea pig, Rabbit.
Application	IP, ICC, WB
Clonality	Polyclonal
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
Storage Instructions	Store at -20°C for one year. For short-term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P63045

Technical Details

Immunogen	Synthetic peptide corresponding to a portion of rat VAMP2. The sequence is completely conserved in mouse, human, bovine, and Xenopus
Predicted Reactive Species	Bovine, Goat, Guinea Pig, Hamster, Monkey, Sheep
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid

Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein A affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western Blot (1:1,000, ECL). Detects a band of ~18kDa by Western blot.</p> <p>Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.</p>

Anti-VAMP2 Antibody (A02331) Images



Western blot analysis of VAMP2 expression in MW Marker (lane 1), mouse brain extract (lane 2) and rat brain extract (lane 3). VAMP2 at 18KD was detected using rabbit anti-VAMP2 Antigen Affinity purified polyclonal antibody (Catalog # A02331) at 1:1000. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

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