

Anti-Presenilin 1 Monoclonal Antibody (APS 11)

Catalog Number: M00138

About PSEN1

Heat shock protein 47, also known as SERPINH1 or HSP47, is a serpin which serves as a human chaperone protein for collagen. This protein is a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein localizes to the endoplasmic reticulum lumen and binds collagen; thus it is thought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis. It has been found that HSP47 monitors the integrity of the triple helix of type I procollagen at the ER/cis-Golgi boundary and, when absent, the rate of transit from the ER to the Golgi is increased and the helical structure is compromised.

Overview

Product Name	Anti-Presenilin 1 Monoclonal Antibody (APS 11)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Presenilin 1 Monoclonal Antibody (APS 11) catalog # M00138. Tested in ELISA, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF
Clonality	Monoclonal APS 11
Formulation	Liquid. In PBS containing 1mg/ml BSA and 0.05% 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	Mouse
Uniprot ID	P49768

Technical Details

Immunogen	Synthetic peptide corresponding to aa 21-34 (CH ²¹ LSNTVRSQND NRE ³⁴) of N-terminal human presenilin 1.
Predicted Reactive Species	Bovine, Goat, Guinea Pig, Hamster, Monkey, Sheep
Cross Reactivity	Detects ~20kDa. Does not cross-react with alphaB-crystallin, betaL-crystallin, ̢H-crystallin, gamma-crystallin, HSP25, HSP27 or HSP47 proteins.
Isotype	IgG1
Form	Liquid. In PBS containing 1mg/ml BSA and 0.05% sodium azide.
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution

	procedure.
Purification	Protein G-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>ELISA (4.5µg/ml)</p> <p>Immunocytochemistry (0.75µg/ml)</p> <p>Immunohistochemistry (paraffin sections, 0.75µg/ml)</p> <p>Western Blot (12µg/ml)</p> <p>Suggested dilutions/conditions may not be available for all applications.</p> <p>Optimal conditions must be determined individually for each application.</p>

Anti-Presenilin 1 Monoclonal Antibody (APS 11) (M00138) Images

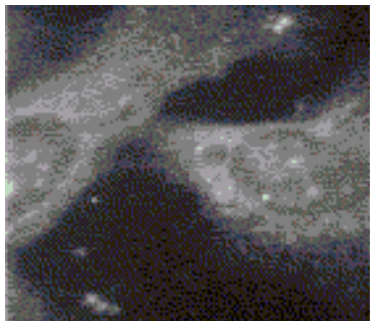


Figure: Immunocytochemistry

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