

Product Datasheet

PICALM Antibody - BSA Free

NBP1-86658

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-86658

PICALM Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

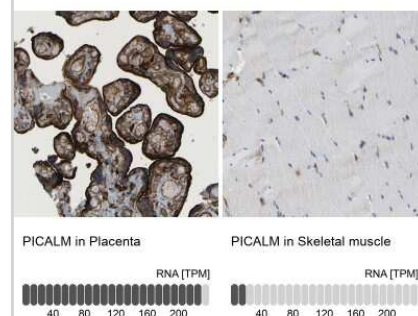
Host	Rabbit
Gene ID	8301
Gene Symbol	PICALM
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DIPDLSQAPSSLLDALEQHLASLEGKKIKDSTAASRATTLSNAVSSLASTGLSLT KVDEREKQAALEEEQARLKALKEQRL

Product Application Details

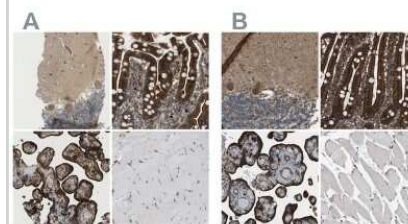
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	For IHC-Paraffin HIER pH6 retrieval is recommended

Images

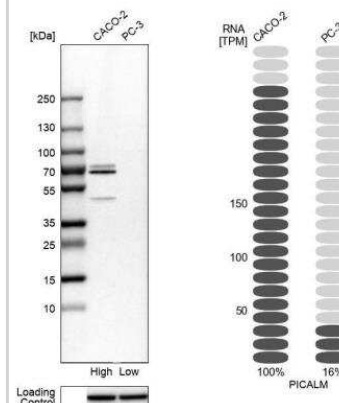
Immunohistochemistry-Paraffin: PICALM Antibody [NBP1-86658] - Staining in human placenta and skeletal muscle tissues using NBP1-86658 antibody. Corresponding PICALM RNA-seq data are presented for the same tissues.



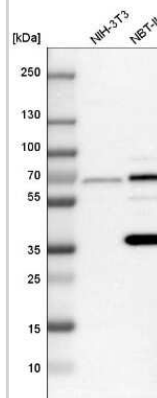
Immunohistochemistry-Paraffin: PICALM Antibody [NBP1-86658] - Staining of human cerebellum, duodenum, placenta and skeletal muscle using Anti-PICALM antibody NBP1-86658 (A) shows similar protein distribution across tissues to independent antibody NBP1-86659 (B).



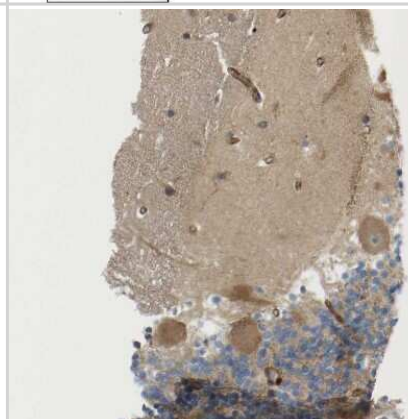
Western Blot: PICALM Antibody [NBP1-86658] - Analysis in human cell lines Caco-2 and PC-3. Corresponding RNA-seq data are presented for the same cell lines. Loading control: Anti-HSP90B1.



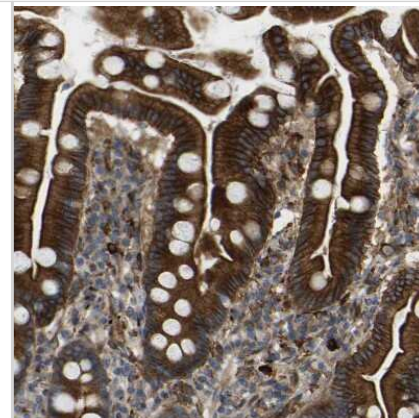
Western Blot: PICALM Antibody [NBP1-86658] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



Immunohistochemistry-Paraffin: PICALM Antibody [NBP1-86658] - Staining of human cerebellum shows moderate cytoplasmic positivity in Purkinje cells.



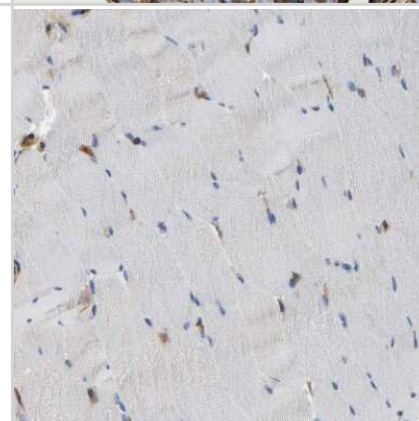
Immunohistochemistry-Paraffin: PICALM Antibody [NBP1-86658] - Staining of human duodenum shows strong membranous and cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: PICALM Antibody [NBP1-86658] - Staining of human placenta shows strong membranous and cytoplasmic positivity in trophoblastic cells.



Immunohistochemistry-Paraffin: PICALM Antibody [NBP1-86658] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



Publications

Zhang Z, Yu K, You Y et al. Comprehensive characterization of human brain-derived extracellular vesicles using multiple isolation methods: Implications for diagnostic and therapeutic applications *Journal of Extracellular Vesicles* 2023-08-10 [PMID: 37563857] (Western Blot)

Azarnia Tehran D, Kochlamazashvili G, Pampaloni NP et al. Selective endocytosis of Ca²⁺-permeable AMPARs by the Alzheimer's disease risk factor CALM bidirectionally controls synaptic plasticity *Science advances* 2022-05-27 [PMID: 35613266]

Thomas RS, Henson A, Gerrish A et al. Decreasing the expression of PICALM reduces endocytosis and the activity of beta-secretase: implications for Alzheimer's disease. *BMC Neurosci* 2016-07-18 [PMID: 27430330] (WB)

Tsai-Teng T, Chin-Chu C, Li-Ya L et al. Erinacine A-enriched *Hericium erinaceus* mycelium ameliorates Alzheimer's disease-related pathologies in APP^{swe}/PS1^{dE9} transgenic mice *J. Biomed. Sci.* 2016-06-28 [PMID: 27350344] (WB, Human)

Mercer JL, Argus JP, Crabtree DM et al. Modulation of PICALM Levels Perturbs Cellular Cholesterol Homeostasis. *PLoS One* 2015-01-01 [PMID: 26075887] (WB, Human)

Zhen Zhao, Abhay P Sagare, Qingyi Ma et al. Central role for PICALM in amyloid- β blood-brain barrier transcytosis and clearance. *Nature Neuroscience* 2015-05-25 [PMID: 26005850] (WB, IF/IHC, Mouse)

Armstrong A, Mattsson N, Appelqvist H et al. Lysosomal Network Proteins as Potential Novel CSF Biomarkers for Alzheimer's Disease. *Neuromolecular Med.* 2013-10-08 [PMID: 24101586] (WB, Human)





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Products Related to NBP1-86658

NBP1-86658PEP	PICALM Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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