

Product Datasheet

PIEZO1 Antibody - Azide and BSA Free NBP2-10504

Unit Size: 0.1 mg

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

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NBP2-10504

PIEZO1 Antibody - Azide and BSA Free

Product Information

Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Lyophilized powder, reconstitute to 1 mg/ml in distilled water.
Isotype	IgG
Purity	Protein A purified
Buffer	0.1M Tris , 0.1M Glycine and 2% Sucrose

Product Description

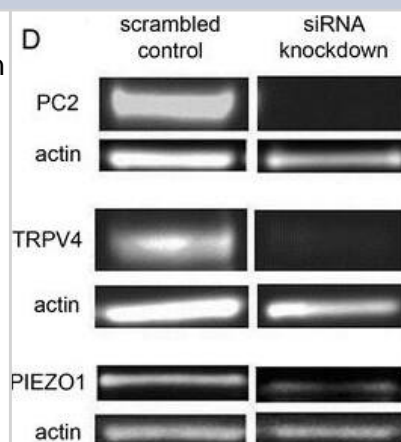
Host	Rabbit
Gene ID	9780
Gene Symbol	PIEZO1
Species	Human, Mouse, Rat, Porcine, Rabbit
Specificity/Sensitivity	Reacts with human 287 kDa Protein FAM38A. Cross-reacts with mouse, rat, rabbit and other species due to sequence homology. Piezo-type mechanosensitive ion channel component 1.
Immunogen	Synthetic peptide derived from C-terminal domain of human Protein FAM38A.

Product Application Details

Applications	Western Blot, ELISA, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:2000, ELISA, Immunohistochemistry 1:50-1:500, Knockdown Validated

Images

Western Blot: PIEZO1 Antibody [NBP2-10504] - PC2, TRPV4, & PIEZO1 localize to MLO-Y4 primary cilia & plasma membrane. (A–C) Localization of PC2, TRPV4, & PIEZO1 on MLO-Y4 primary cilia & plasma membrane. Acetylated alpha-tubulin is in enriched primary cilia. Scale bars, 10 μ m. (D) Chemiluminescence-detected Western blot of PC2, TRPV4, PIEZO1, & actin protein in MLO-Y4s treated with scrambled control siRNA & Pkd2, Trpv4, or Piezo1 siRNA. (E) Quantified knockdown of Pkd2 (n = 4), Trpv4 (n = 10), & Piezo1 (n = 4) mRNA expression in MLO-Y4 cells treated with siRNA relative to controls (n = 10). Error bars show \pm SEM. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26029358>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Chen C, Chu CH, Chu Y et al. Neuronal paxillin and drebrin mediate BDNF-induced force transduction and growth cone turning in a soft-tissue-like environment Cell reports 2022-08-16 [PMID: 35977504] (ICC/IF, Rat)

Lee K, Guevarra M, Nguyen A et al. The primary cilium functions as a mechanical and calcium signaling nexus. Ciliajournal 2015-05-29 [PMID: 26029358] (WB, Mouse)

Details:

The PIEZO 1 antibody was used to detect PIEZO1 in the primary cilia and the membrane of MLO-YR mouse cells





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Products Related to NBP2-10504

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-78537PEP	PIEZO1 Antibody Blocking Peptide

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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