

Product Datasheet

Asporin Antibody NB100-1514

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 4

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NB100-1514

Asporin Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	43 kDa

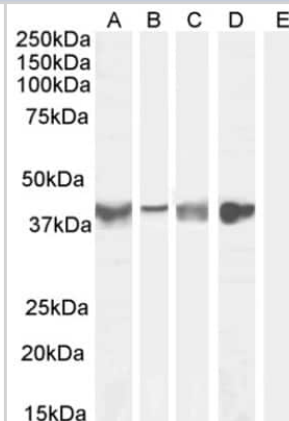
Product Description	
Description	Novus Biologicals Goat Asporin Antibody (NB100-1514) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Asporin Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	54829
Gene Symbol	ASPN
Species	Human, Mouse, Rat
Immunogen	Peptide with sequence C-IHENKVKKIQKDT corresponding to internal region according to NP_060150.3.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Peptide ELISA
Recommended Dilutions	Western Blot 0.1-1 ug/ml, ELISA 1:100 - 1:2000, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Peptide ELISA detection limit 1:64000

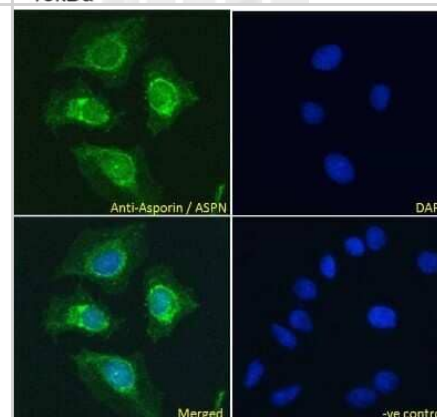


Images

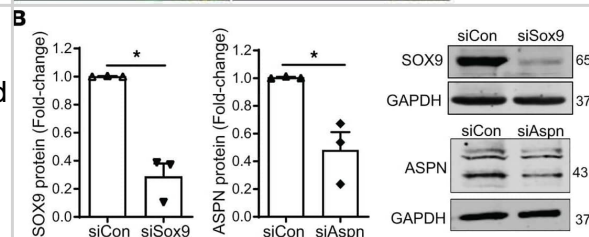
Western Blot: Asporin Antibody [NB100-1514] - (0.1ug/ml) staining of Human Tonsil (A), (0.3ug/ml) Human Uterus (B), Mouse Skeletal Muscle (C) (1ug/ml) Rat Skeletal Muscle (D) and negative control Human Cerebellum (E) lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.



Immunocytochemistry/Immunofluorescence: Asporin Antibody [NB100-1514] - analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing nuclear membrane staining. The nuclear stain is DAPI



SOX9 and ASPN promote both CF-to-MF and CF-to-OF transition. (A) AngII- and TGF- β -induced expression of Sox9 and Aspn transcripts in CF upon Sox9 or Aspn knockdown as assessed by qPCR. (B) SOX9 and ASPN protein expression in CF upon Sox9 or Aspn knockdown with representative Western blots. (C) AngII- and TGF- β -induced CF proliferation upon Sox9 or Aspn knockdown as assessed by CCK8 assay. (D) CF migration upon Sox9 or Aspn knockdown as assessed by scratch wound assay. (E) AngII- and TGF- β -induced CF collagen production upon Sox9 or Aspn knockdown as assessed by soluble Sirius red assay. (F) AngII- and TGF- β -induced α SMA expression in CF upon Sox9 or Aspn knockdown as assessed by immunofluorescence. Scale bar: 10 μ m. (G) Osteogenic growth medium-induced calcium nodules (dark red, arrows) in CF upon Sox9 or Aspn knockdown as assessed by alizarin red staining. Scale bar: 20 μ m. (H and I) AngII- and TGF- β -induced expression of Postn, Runx2, and Alp3 transcripts in CF upon Sox9 or Aspn knockdown as assessed by qPCR. (J) Expression of active β -catenin in CF upon Sox9 or Aspn knockdown as assessed by Western blot. Data presented as mean \pm SEM; n = 3–4 independent experiments. Student's t test (B) or ANOVA with Holm-Bonferroni post hoc correction. #P < 0.05 versus NC mimic ctrl stimulus, ##P < 0.01 versus NC mimic ctrl stimulus, ###P < 0.001 versus NC mimic ctrl; *P < 0.05, **P < 0.01, ***P < 0.001. AngII, Angiotensin II; NC, negative control. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37154157>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Medzikovic L, Aryan L, Ruffenach G et al. Myocardial fibrosis and calcification are attenuated by microRNA-129-5p targeting Asporin and Sox9 in cardiac fibroblasts JCI insight 2023-05-08 [PMID: 37154157] (IHC, Human)

Bala K, Cuellar A, Herren AW, Boyadjiev SA Identification of differentially expressed proteins between fused and open sutures in sagittal nonsyndromic craniosynostosis during suture development by quantitative proteomic analysis Proteomics. Clinical applications 2021-02-13 [PMID: 33580899]

Kizawa H, Kou I, Iida A et al. An aspartic acid repeat polymorphism in asporin inhibits chondrogenesis and increases susceptibility to osteoarthritis. Nat Genet 2005-02-01 [PMID: 15640800]

Yang L, Nyalwidhe JO, Guo S et al. Targeted identification of metastasis-associated cell-surface sialoglycoproteins in prostate cancer. Mol Cell Proteomics. 2011-06-01 [PMID: 21447706]





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Products Related to NB100-1514

NB100-1514PEP	Asporin Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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