Product Datasheet

S100A10 Antibody - BSA Free
NBP1-89370

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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Publications: 4

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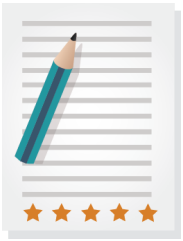
Updated 3/30/2026 v.20.1



NBP1-89370

S100A10 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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

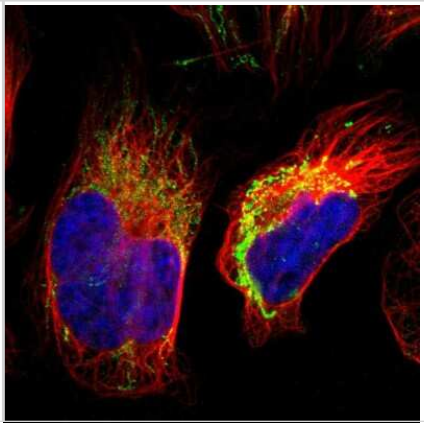
Host	Rabbit
Gene ID	6281
Gene Symbol	S100A10
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: MPSQMEHAMETMMFTFHKFAGDKGYLTKEDLRVLMEKEFPGFLENQKDPLAV DKIMKDLDQCRDGKV

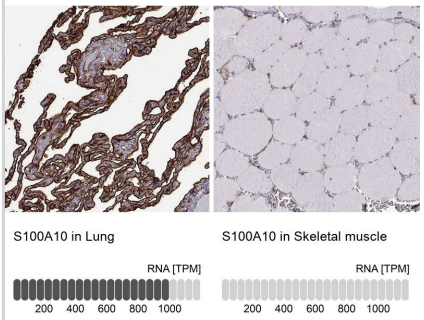
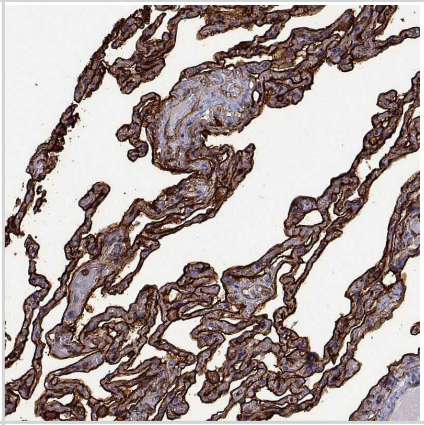
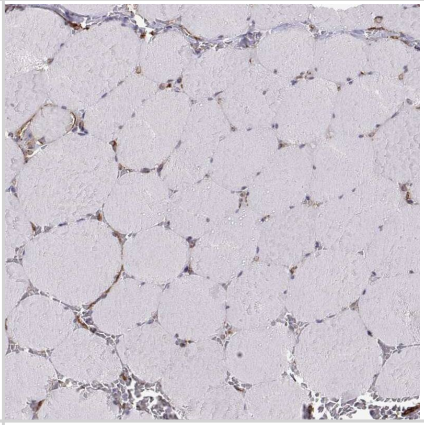
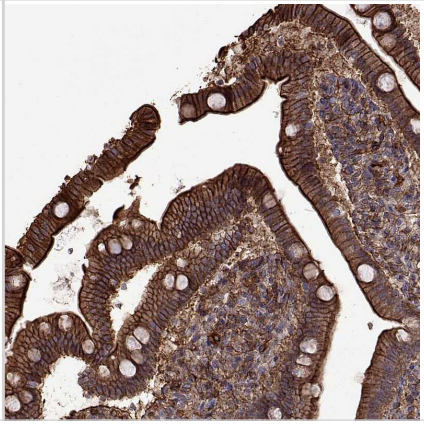
Product Application Details

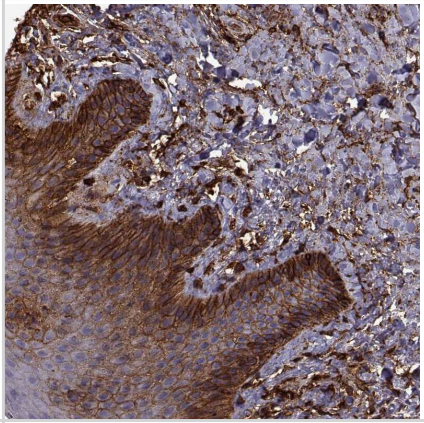
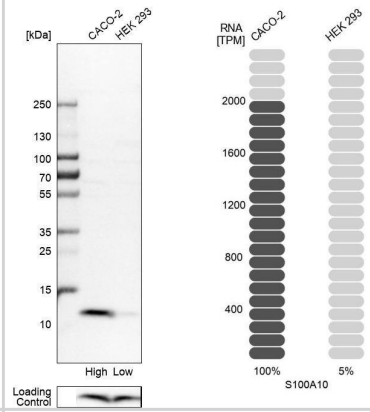
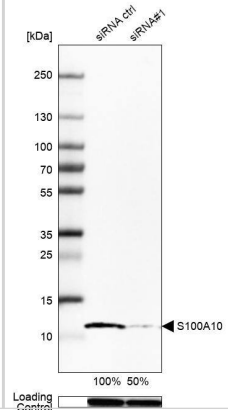
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

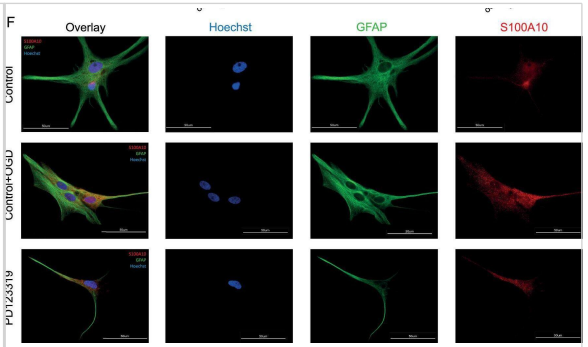
Immunocytochemistry/Immunofluorescence: S100A10 Antibody [NBP1-89370] - Staining of human cell line U-2 OS shows localization to mitochondria. Antibody staining is shown in green.



Analysis in human lung and skeletal muscle tissues using NBP1-89370 antibody. Corresponding S100A10 RNA-seq data are presented for the same tissues.	
Staining of human lung shows strong membranous positivity in macrophages.	
Analysis in human lung and skeletal muscle tissues using NBP1-89370 antibody. Corresponding S100A10 RNA-seq data are presented for the same tissues.	
Staining of human small intestine shows strong membranous positivity in glandular cells.	

Staining of human skin shows strong membranous positivity in squamous epithelial cells.	
Analysis in human cell lines Caco-2 and HEK293 using Anti-S100A10 antibody. Corresponding S100A10 RNA-seq data are presented for the same cell lines. Loading control: Anti-COX4I1.	
Analysis in Caco-2 cells transfected with control siRNA, target specific siRNA probe #1, using Anti-S100A10 antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.	

The AT2-blocker PD123319 induces S100A10 expression in astrocytes with increased proliferation whereas Telmisartan does not affect S100A10 or Ki67 expression. *p < 0.05, **p < 0.01, and ***p < 0.001 compared different experimental groups as marked by horizontal bar; graphs depict mean values +/- standard error of the mean (SEM). A Experimental timeline. Three to five days after subculturing, astrocytes were left unstimulated or treated with 10 uM telmisartan or 10 uM PD123319 for 48 h. They were then exposed to 2 h of oxygen–glucose deprivation (OGD) before they were allowed to recover in regular culture medium for 24 h. Afterward, the cells were used for further experiments. Unstimulated astrocytes, which were exposed to 2 h of OGD, served as controls. B S100A10 marker expression in untreated (unstimulated) or OGD-treated (2 h of OGD) astrocytes with or without the additional preincubation with 10 uM telmisartan or 10 uM PD123319. C Proliferation rate of untreated (unstimulated) and OGD-treated (2 h OGD) astrocytes, with or without preincubation with 10 uM telmisartan or 10 uM PD123319 over 48 h as assessed by mRNA-ki67 expression. D ATP concentration of untreated or OGD-treated astrocytes with or without preincubation with 10 uM telmisartan or 10 uM PD123319 over 48 h. E Expression of the connexin Cx43 in untreated or OGD-treated astrocytes with or without preincubation with 10 uM telmisartan and 10 uM PD123319 over 48 h. F Representative immunocytochemical stainings of astrocytes with Glia Fibrillary Acidic Protein (GFAP) + (green) and S100A10 + (red) in unstimulated (control), PD123319-preincubated (PD123319), or after 2 h of OGD (OGD + Control). Hoechst stained all cell nuclei blue; scale bars = 50 um Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/38926677), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Olschewski, DN;Nazarzadeh, N;Lange, F;Koenig, AM;Kulka, C;Abraham, JA;Blaschke, SJ;Merkel, R;Hoffmann, B;Fink, GR;Schroeter, M;Rueger, MA;Vay, SU; The angiotensin II receptors type 1 and 2 modulate astrocytes and their crosstalk with microglia and neurons in an in vitro model of ischemic stroke BMC neuroscience 2024-06-26 [PMID: 38926677]

Klein I, Boenert J, Lange F et al. Glia from the central and peripheral nervous system are differentially affected by paclitaxel chemotherapy via modulating their neuroinflammatory and neuroregenerative properties Frontiers in pharmacology 2022-11-02 [PMID: 36408236]

Vay SU, Olschewski DN, Petereit H et al. Osteopontin regulates proliferation, migration, and survival of astrocytes depending on their activation phenotype Journal of neuroscience research 2021-09-12 [PMID: 34510519] (ICC/IF, Rat)

Lu H, Xie Y, Tran L et al. Chemotherapy-induced S100A10 recruits KDM6A to facilitate OCT4-mediated breast cancer stemness J Clin Invest. 2020-05-19 [PMID: 32427586] (KD, IP, Human)

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NBP1-89370PEP	S100A10 Recombinant Protein Antigen
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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