

Product Datasheet

G3BP2 Antibody - BSA Free

NBP1-82976

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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NBP1-82976

G3BP2 Antibody - BSA Free

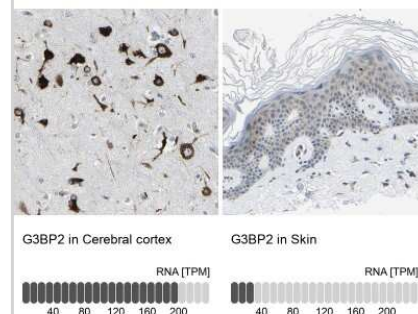
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Description	Novus Biologicals Rabbit G3BP2 Antibody - BSA Free (NBP1-82976) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-G3BP2 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	9908
Gene Symbol	G3BP2
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 25893917).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KNLEEELEEKSTTPPPAEPVSLPQEPPKPRVEAKPEVQSQPPRVREQRPRERP GFPPRGPRPGRGDMEQNDS

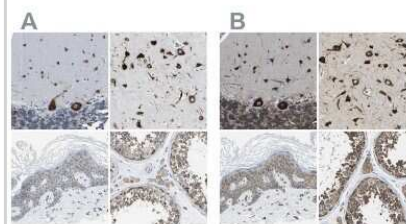
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

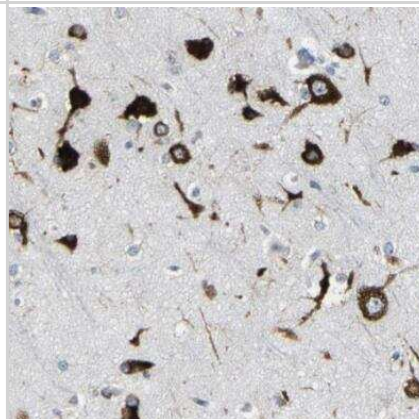
Immunohistochemistry-Paraffin: G3BP2 Antibody [NBP1-82976] - Analysis in human cerebral cortex and skin tissues using NBP1-82976 antibody. Corresponding G3BP2 RNA-seq data are presented for the same tissues.



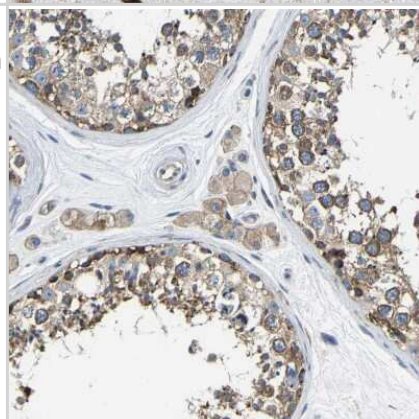
Immunohistochemistry-Paraffin: G3BP2 Antibody [NBP1-82976] - Staining of human cerebellum, cerebral cortex, skin and testis using Anti-G3BP2 antibody NBP1-82976 (A) shows similar protein distribution across tissues to independent antibody NBP1-82977 (B).



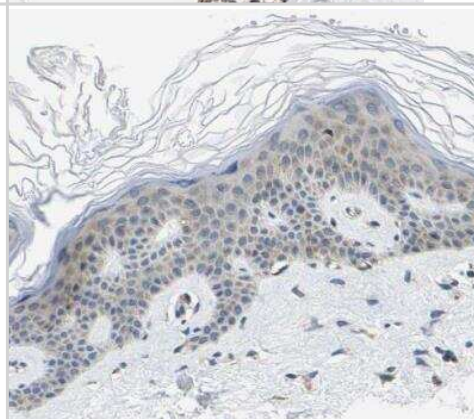
Immunohistochemistry-Paraffin: G3BP2 Antibody [NBP1-82976] - Staining of human cerebral cortex shows strong cytoplasmic positivity in neuronal cells.



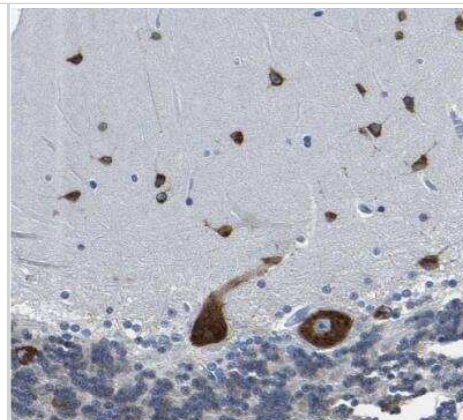
Immunohistochemistry-Paraffin: G3BP2 Antibody [NBP1-82976] - Staining of human testis shows moderate cytoplasmic positivity in cells in seminiferous ducts and Leydig cells.



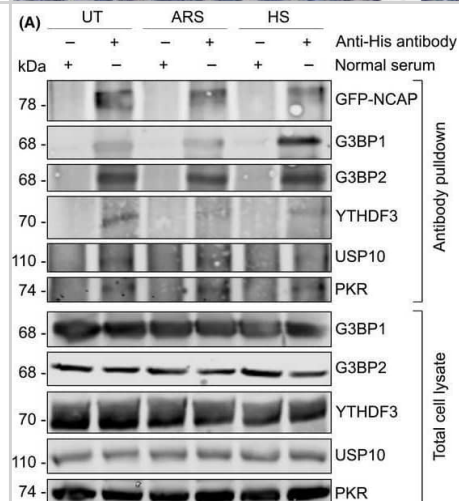
Immunohistochemistry-Paraffin: G3BP2 Antibody [NBP1-82976] - Staining of human skin shows very weak cytoplasmic positivity in epidermal cells.



Immunohistochemistry-Paraffin: G3BP2 Antibody [NBP1-82976] - Staining of human cerebellum shows strong cytoplasmic positivity in Purkinje cells and in molecular layer.



NCAP interacts with SG proteins. (A) Interaction of NCAP with G3BP1, G3BP2, YTHDF3, USP10 and PKR. A549 cells transfected with GFP-NCAP were unstressed, treated with arsenite or heat shock and subjected to co-IP using anti-His antibodies. The pull-down samples and total cell lysates were subjected to western blotting with indicated antibodies. (B) NCAP reduces global protein synthesis in A549 cells as measured by the Click chemistry-AHA method (see Methods for more details). Ponceau staining and actin were used as loading controls. (C) NCAP does not affect the phosphorylation of eIF2 α . A549 cells transfected with GFP-NCAP were untreated, treated with arsenite or heat shock and subjected to western blotting with antibodies against p-eIF2 α , eIF2 α , NCAP and ACTIN. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34780058>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

De Marchi T, Liu NQ, Stingl C et al. 4-protein signature predicting tamoxifen treatment outcome in recurrent breast cancer *Molecular Oncology* 2016-01-01 [PMID: 26285647] (Immunohistochemistry, Western Blot, Mouse)

Wang C, Terrigno M, Li J et al. Increased G3BP2-Tau interaction in tauopathies is a natural defense against Tau aggregation *Neuron* 2023-06-23 [PMID: 37385246] (PLA, WB, Human)

Somasekharan SP, Gleave M SARS-CoV-2 nucleocapsid protein interacts with immunoregulators and stress granules and phase separates to form liquid droplets *FEBS letters* 2021-11-15 [PMID: 34780058] (WB, Human)

Li H, Lin PH, Gupta P et al. MG53 suppresses tumor progression and stress granule formation by modulating G3BP2 activity in non-small cell lung cancer *Molecular cancer* 2021-09-14 [PMID: 34521423] (WB, ICC/IF, Human)

Ramachandran B, Stably JN, Cheng SL, et al. A GTPase-activating protein-binding protein (G3BP1)/antiviral protein relay conveys arteriosclerotic Wnt signals in aortic smooth muscle cells. *J Biol Chem.* 2018 Apr 6 [PMID: 29626090] (WB, IP, Human)

De Marchi T, Liu NQ, Stingl C et al. 4-protein signature predicting tamoxifen treatment outcome in recurrent breast cancer *Mol Oncol* 2016 Jan 01 [PMID: 26285647] (IHC-P, Human)

Details:

The Novus G3BP2 antibody was used to look for a potential correlation between increased G3BP2 expression and clinical outcomes.

Wei SC, Fattet L, Tsai JH et al. Matrix stiffness drives Epithelial-Mesenchymal Transition and tumour metastasis through a TWIST1-G3BP2 mechanotransduction pathway. *Nat Cell Biol* 2015-05-01 [PMID: 25893917] (WB, IF/IHC, Mouse)



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Products Related to NBP1-82976

NBP1-82976PEP	G3BP2 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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