

# Product Datasheet

## FAM50A Antibody - BSA Free NBP1-89344

Unit Size: 0.1 ml

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

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 2

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**NBP1-89344**

FAM50A Antibody - BSA Free

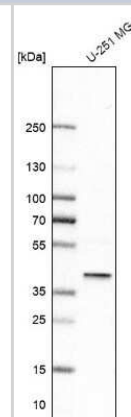
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	9130
Gene Symbol	FAM50A
Species	Human, Zebrafish
Reactivity Notes	Use in Zebrafish reported in scientific publication (PMID: 32703943).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: VTLNDMKAKQEALVKEREKQLAKKEQSKEQLQMKLEKLREKERKKEAKRKISSL SFTLEEEEEEGEEEEEAAMYEEEMEREEITTKKRKLGKNPVDVTSFLPDRDRE

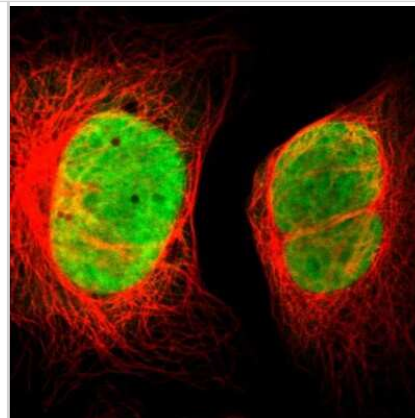
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunoprecipitation Reported in scientific publication (PMID: 32703943), Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

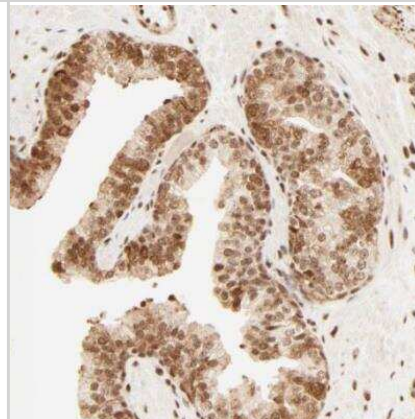
Western Blot: FAM50A Antibody [NBP1-89344] - Analysis in human cell line U-251 MG.



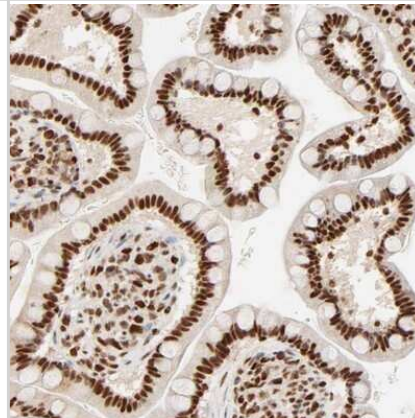
Immunocytochemistry/Immunofluorescence: FAM50A Antibody [NBP1-89344] - Staining of human cell line U-2 OS shows localization to nucleoplasm. Antibody staining is shown in green.



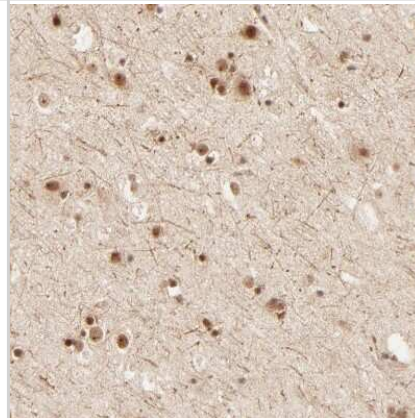
Immunohistochemistry-Paraffin: FAM50A Antibody [NBP1-89344] - Staining of human prostate shows strong nuclear/ cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: FAM50A Antibody [NBP1-89344] - Staining of human small intestine shows strong nuclear positivity in glandular cells.



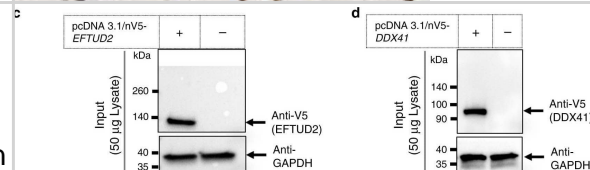
Immunohistochemistry-Paraffin: FAM50A Antibody [NBP1-89344] - Staining of human cerebral cortex shows strong nuclear/cytoplasmic positivity in neurons.



Immunohistochemistry-Paraffin: FAM50A Antibody [NBP1-89344] - Staining of human skeletal muscle shows strong nuclear positivity in myocytes.



Western Blot: FAM50A Antibody [NBP1-89344] - FAM50A interacts with U5 & C-complex proteins. a Schematic representation of the two-step splicing reaction (adapted from ref. 70). EFTUD2 (U5); FAM50A & DDX41 (C-complex). b Graphical representation of semi-native co-immunoprecipitation assay. Candidate interactors were overexpressed in U-87 cells, harvested in immunoprecipitation (IP) lysis buffer at 60 h post-transfection & immunoprecipitated with anti-FAM50A antibody. The interaction partners were detected in IP lysate using anti-V5 & anti-FAM50A antibodies, respectively. c, d Western blot of proteins after co-immunoprecipitation. Top: total protein lysate input (50 µg/lane) was migrated on 4–15% polyacrylamide gels to detect EFTUD2 (c) or DDX41 (d) using anti-V5 mouse monoclonal antibody. GAPDH was used as loading control. Bottom: Anti-FAM50A antibody was used to immunoprecipitate native FAM50A protein in total input lysate of 2.3 mg/condition (c) or 3.5 mg/condition (d). The IP lysate was separated in two parts (20% & 80%) & migrated independently on 4–15% polyacrylamide gels. The proteins of interest with predicated band sizes are indicated with black arrows. Plus & minus signs indicate presence & absence of relevant plasmids, respectively. EFTUD2 & DDX41 were detected in independent experiments using protein lysates derived from replicate batches of U-87 cells. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32703943>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Lee YR, Khan K, Armfield-Uhas K et al. Mutations in FAM50A suggest that Armfield XLID syndrome is a spliceosomopathy Nat Commun 2020-07-23 [PMID: 32703943] (IP, WB, ICC/IF, Zebrafish, Human)

Stadler C, Rexhepaj E, Singan VR et al. Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells. Nat Methods 2013-04-01 [PMID: 23435261]



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### **Products Related to NBP1-89344**

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NBP1-89344PEP	FAM50A 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

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### **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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