

Product Datasheet

FAM171B Antibody - BSA Free NBP1-93847

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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NBP1-93847

FAM171B 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

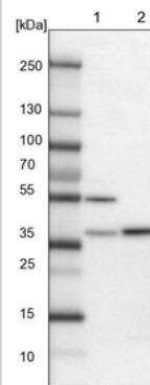
Product Description	
Description	Novus Biologicals Rabbit FAM171B Antibody - BSA Free (NBP1-93847) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-FAM171B Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	165215
Gene Symbol	FAM171B
Species	Human, Mouse
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: FEDTVLITGKLADAKSQPSVQFSKALIKLPDNNHHISNVTGYLTVLQQFLKVDNFL HTTGITLNKPGFENIELTPLAAICVKIYSGGKELKVNGSIQVSLPLLRLNDISAGDR IPAWTFDMNTGAWVNHGRGM

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

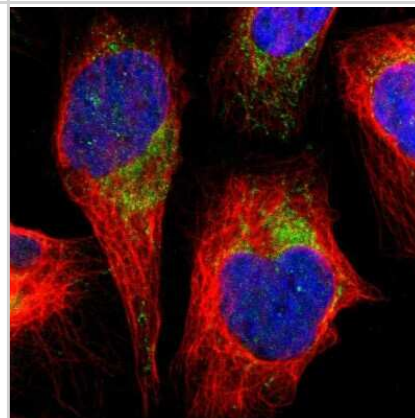


Images

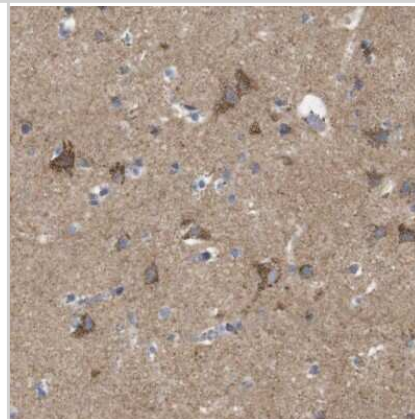
Western Blot: FAM171B Antibody [NBP1-93847] - Lane 1: Mouse liver tissue lysate. Lane 2: Rat liver tissue lysate.



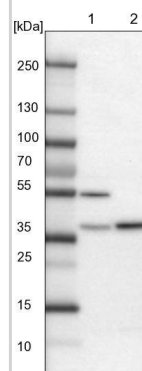
Immunocytochemistry/Immunofluorescence: FAM171B Antibody [NBP1-93847] - Staining of human cell line U-2 OS shows localization to mitochondria. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: FAM171B Antibody [NBP1-93847] - Staining of human cerebral cortex shows moderate cytoplasmic positivity in neuronal cells.

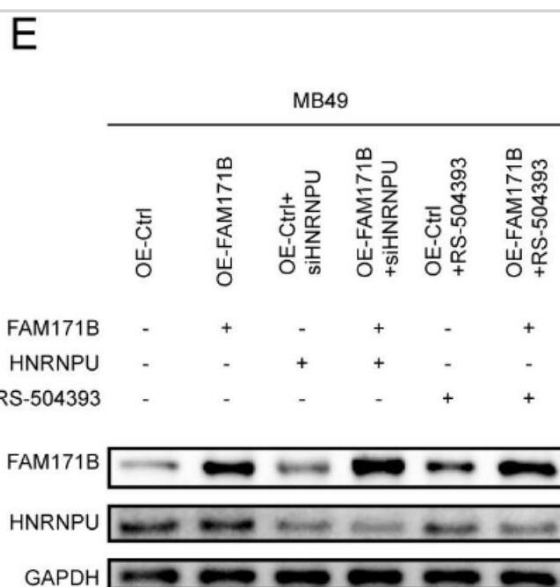
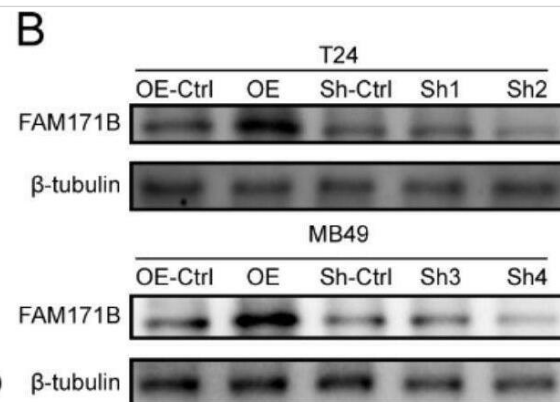


Lane 1: Mouse liver tissue lysate
Lane 2: Rat liver tissue lysate

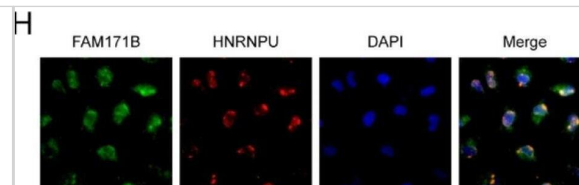


FAM171B promotes the malignant phenotype of bladder cancer cells. A The Chronos dependency score analysis of FAM171B in the 28 human bladder urothelial carcinoma cell lines in the CCLE database. The Chronos dependency score is based on data from a cell depletion assay. A lower Chronos score indicates a higher likelihood that the gene of interest is essential in a given cell line. B Protein levels of FAM171B in the knockdown and overexpression cell lines. C Representative colony formation images in different groups. D Colony formation analysis of T24 and MB49 cells after knockdown and overexpression of FAM171B. E Cell viability of T24 and MB49 after knockdown and overexpression of FAM171B. F Representative transwell images of T24 and MB49 cells after knockdown and overexpression of FAM171B. G Statistical results of the number of invasive cells in each group of T24 and MB49 cells. H Representative images of migration in T24 and MB49 cells after knockdown and overexpression of FAM171B. I Statistical results of the number of migrated cells in each group of T24 and MB49 cells Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37915048>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

FAM171B regulates CCL2 via HNRNPU and promotes TAM migration and infiltration in bladder cancer. A ELISA analysis of CCL2 secretion levels in MB49 cells with FAM171B overexpression or knockdown. B RIP results show that HNRNPU can immunoprecipitate with CCL2 precursor RNA. C qRT-PCR analysis of the relative RNA levels of precursor CCL2 and CCL2 in MB49 cells with HNRNPU knockdown or control. D ELISA analysis of CCL2 secretion levels in MB49 cells with HNRNPU knockdown or control. E Protein levels of FAM171B and HNRNPU in the MB49 cell lines in different groups. F ELISA analysis of CCL2 secretion levels in MB49 cells in different groups. G Analysis of migration of RAW264.7(mouse macrophages) toward MB49 cells in different groups. H Representative images of migration of RAW264.7(mouse macrophages) toward MB49 cells in co-culture chambers. I The pictures of tumors derived from mouse bladder cancer MB49 cell line. J IHC staining pictures of F4/80(macrophage marker) expression in different groups. K Representative images of flow cytometry used to evaluate F4/80 positive subpopulations. L The tumor weight in different groups. M The tumor volume in different groups. N The average body weight of mice in different groups. O Analysis of F4/80 positive population by IHC. P Analysis of F4/80 positive population by flow cytometry Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37915048>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



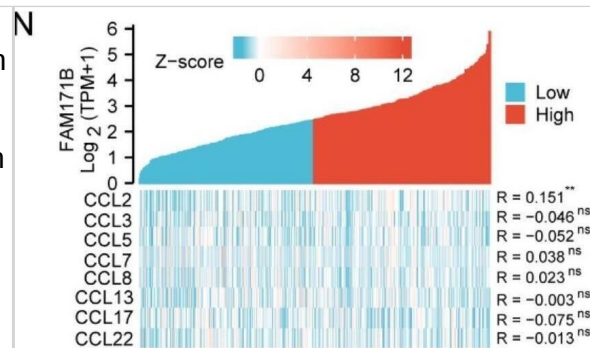
FAM171B interacts with vimentin and HNRNPU in bladder cancer cells. A Mass spectrometry analysis of interacting proteins enriched by immunoprecipitation. Immunoprecipitation is performed by Anti-DYKDDDDK beads on T24 cells transfected with FLAG-FAM171B or FLAG-control. B Analysis of positive and background proteins based on Mass Spectrometry scores. C The top 16 proteins with the highest scores based on MS results. D Protein interaction network map of proteins bound to FAM171B based on MS results. The protein interactions data is from STRING database. E The predicted protein structure image of FAM171B based on the Alpha Fold. F Immunofluorescence analysis images revealed the localization of FAM171B in T24 cells. G Colocalization of FAM171B and vimentin was visualized by confocal microscope in T24 cells. Cytoplasmic staining of FAM171B and vimentin was mostly merged together. H Colocalization of FAM171B and HNRNPU was visualized by confocal microscope in T24 cells. Nuclear staining of FAM171B and HNRNPU was mostly merged together. I ImageJ was used for colocation analysis of FAM171B and vimentin. Pearson correlation analysis showed that $r > 0.5$. Manders' colocation coefficient showed that $M1 > 0.5$ and $M2 > 0.5$. J Computational docking model between FAM171B and vimentin. K ImageJ was used for colocation analysis of FAM171B and HNRNPU. Pearson correlation analysis showed that $r > 0.5$. Manders' colocation coefficient showed that $M1 > 0.5$ and $M2 > 0.5$. L Computational docking model between FAM171B and HNRNPU Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37915048>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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FAM171B expression is positively correlated with tumor progression and M2 TAM infiltration in BLCA patients. A Analysis of FAM171B expression in tumor tissue and paired normal tissue from TCGA dataset. B Representative IHC staining images of FAM171B in BLCA tissue array. C IHC score in different T stages from BLCA tissue array. D IHC score in different N stages from BLCA tissue array. E Relationship between FAM171B expression level and overall survival from TCGA dataset. F Relationship between FAM171B expression level and progression free survival from TCGA dataset. G Relationship between FAM171B expression level and disease specific survival from TCGA dataset. H Relationship between FAM171B expression level and disease-free survival from TCGA dataset. I Relationship between FAM171B expression level and overall survival from GEO dataset (GSE13507/GSE31684/GSE32894/GSE37815). J Analysis of FAM171B expression in different T stages from TCGA dataset. K Analysis of FAM171B expression in different N stages from TCGA dataset. L Analysis of FAM171B expression in different pathologic stages from TCGA dataset. M Lollipop plot demonstrating the correlation between FAM171B expression and different immune cell infiltration. N Heat map of the correlation between FAM171B expression and major monocyte/macrophage chemokines. O Immunoscore analysis of FAM171B and M1 macrophages in bladder cancer using QUANTISEQ algorithm. P Immunoscore analysis of FAM171B and M2 macrophages in bladder cancer using QUANTISEQ algorithm. Q Representative IHC staining images (FAM171B) and IF staining images (CD206, CD8 and α -SMA) in BLCA tissue array. R Proportion of immunofluorescence-positive cells (CD206, CD8 and α -SMA) in FAM171B high or low expression group from tissue array Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37915048>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Rajaguru D Intracellular Localization of the Novel PolyQ Protein FAM171B Brain Res 2021-05-30 [PMID: 34052262]



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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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