

Product Datasheet

FAM98B Antibody - BSA Free NBP1-83475

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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NBP1-83475

FAM98B Antibody - BSA Free

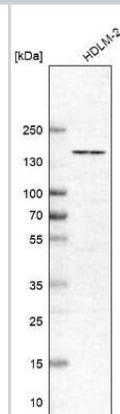
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	283742
Gene Symbol	FAM98B
Species	Human
Reactivity Notes	Reactivity reported in scientific literature (PMID: 24608264)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: STTSDIPHMLNQVESKVKDILSKVQKNHVGKPLLKMDLNSEQAEQLERINDALS CEYECRRRMLMKRLDVTVQSFQWSDRAKVKTTDDIARIYQPKRYALSPKTTITM AHLAAREDLSKIIRTSSGTSREKTACAI

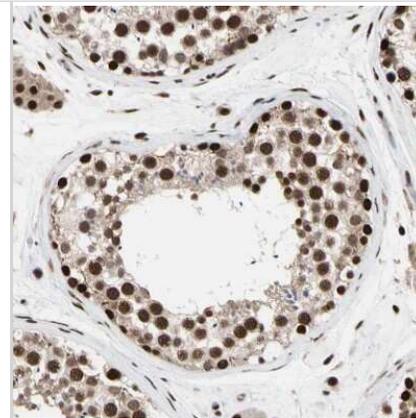
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:500, Immunohistochemistry-Paraffin 1:20-1:50
Application Notes	WB reported in scientific literature (PMID: 25378478). For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

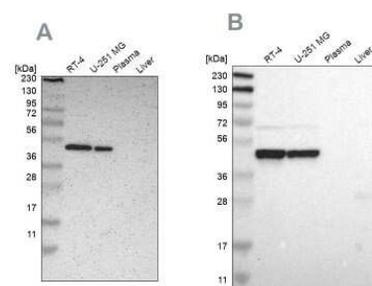
Western Blot: FAM98B Antibody [NBP1-83475] - Lane 1: Marker [kDa]
207, 110, 79, 49, 32, 25, 17
Lane 2: Human cell line RT-4
Lane 3: Human cell line EFO-24



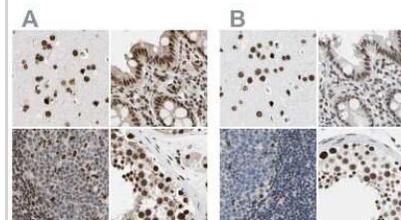
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human testis shows strong nuclear positivity in cells in seminiferous ducts.



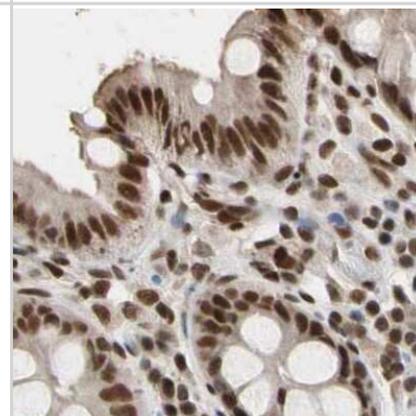
Western Blot: FAM98B Antibody [NBP1-83475] - Analysis using Anti-FAM98B antibody NBP1-83475 (A) shows similar pattern to independent antibody NBP1-83474 (B).



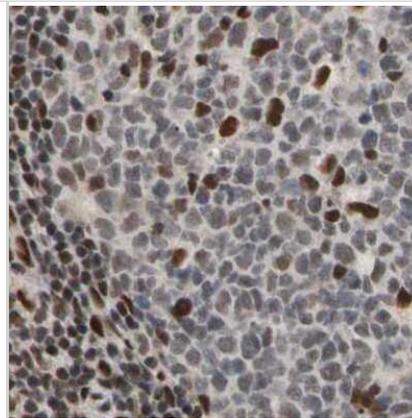
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human cerebral cortex, colon, lymph node and testis using Anti-FAM98B antibody NBP1-83475 (A) shows similar protein distribution across tissues to independent antibody NBP1-83474 (B).



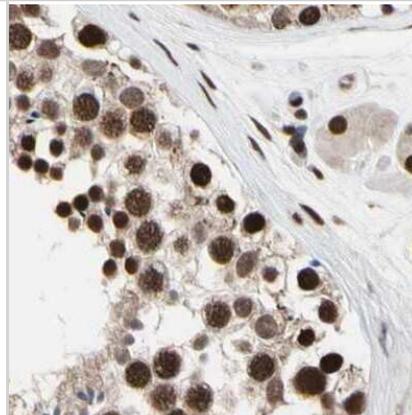
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human colon.



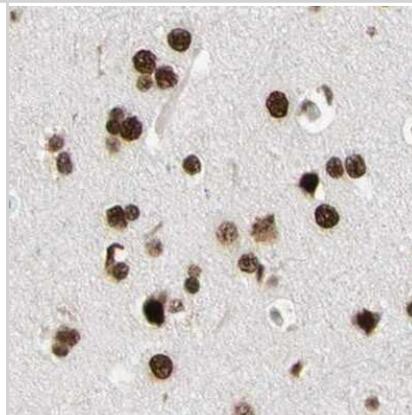
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human lymph node.



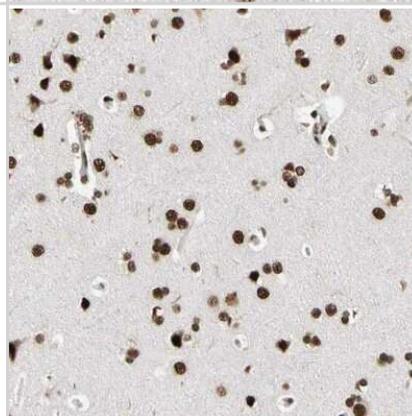
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human testis.



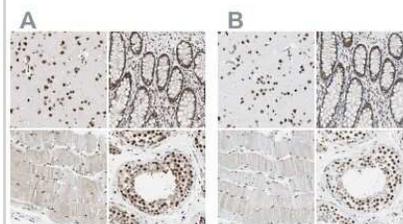
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human cerebral cortex.



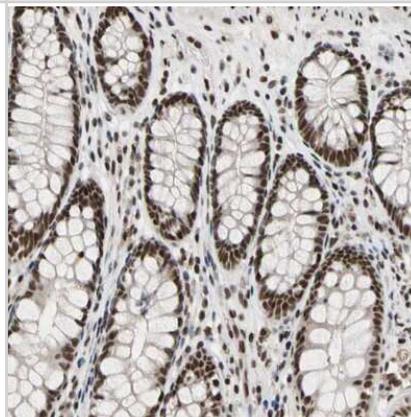
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human cerebral cortex shows strong nuclear positivity in neuronal cells.



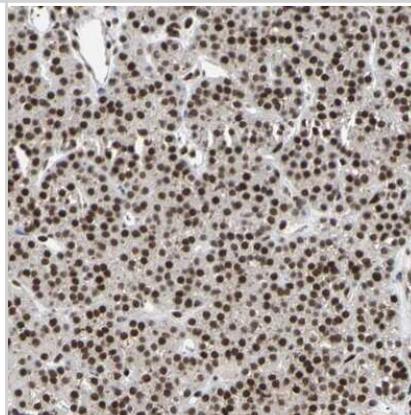
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human cerebral cortex, gastrointestinal, skeletal muscle and testis using Anti-FAM98B antibody NBP1-83475 (A) shows similar protein distribution across tissues to independent antibody NBP1-83474 (B).



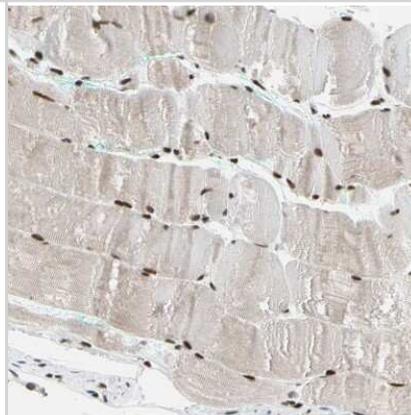
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human colon shows strong nuclear positivity in glandular cells.



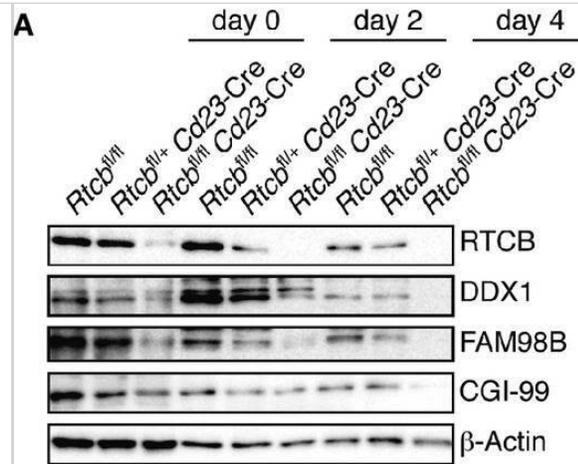
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human parathyroid gland shows strong nuclear positivity in glandular cells.



Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human skeletal muscle shows strong nuclear positivity in myocytes.



Western Blot: FAM98B Antibody [NBP1-83475] - RTCB is required for induction of XBP1s during plasma cell differentiation. B220+ splenocytes of control (Rtcbfl/fl or Rtcbfl/+), Rtcbfl/+Cd23-Cre or Rtcbfl/flCd23-Cre mice were stimulated with 20 µg/ml LPS for 4 days. A, B Protein levels of RTCB, tRNA ligase complex members (DDX1, FAM98B, CGI-99) & XBP1 were monitored by Western blot analysis (n > 3). C FACS-sorted CD138+ CD22- plasmablasts or CD138- CD22low pre-plasmablasts were probed for expression of the indicated proteins by Western blot analysis (n = 2). D Relative mRNA levels of Rtcb, Xbp1s, total Xbp1, Edem1, µM & µS were analyzed by RT-qPCR in fractionated LPS-stimulated cells at day 4 (n = 4, mean expression levels & SEM are displayed). Expression levels were normalized to Actb mRNA levels & to B cells from control mice. An unpaired Student's t-test was used to analyze the statistical significance of differences in mRNA levels (*P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25378478>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Jurkin J, Henkel T, Nielsen AF et al. The mammalian tRNA ligase complex mediates splicing of XBP1 mRNA and controls antibody secretion in plasma cells. EMBO J 2014-12-17 [PMID: 25378478] (WB, Human)

Popow J, Jurkin J, Schleiffer A et al. Analysis of orthologous groups reveals Archease and DDX1 as tRNA splicing factors. Nature 2014-07-03 [PMID: 24870230]

Perez-Gonzalez A, Pazo A, Navajas R et al. hCLE/C14orf166 Associates with DDX1-HSPC117-FAM98B in a Novel Transcription-Dependent Shuttling RNA-Transporting Complex. PLoS One 2014-01-01 [PMID: 24608264]



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Products Related to NBP1-83475

NBP1-83475PEP	FAM98B 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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