

# 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**

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

**Product Description**

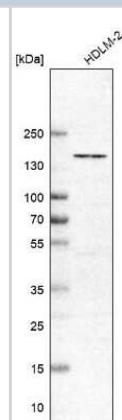
<b>Host</b>	Rabbit
<b>Gene ID</b>	283742
<b>Gene Symbol</b>	FAM98B
<b>Species</b>	Human
<b>Reactivity Notes</b>	Reactivity reported in scientific literature (PMID: 24608264)
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: STTSDIPHMLNQVESKVKDILSKVQKNHVGKPLLKMDLNSEQAEQLERINDALS CEYECRRRMLMKRLDVTVQSFGWSDRAKVKTDIARIYQPKRYALSPKTTITM AHLAAREDLSKIIIRTSSGTSREKTACAI

**Product Application Details**

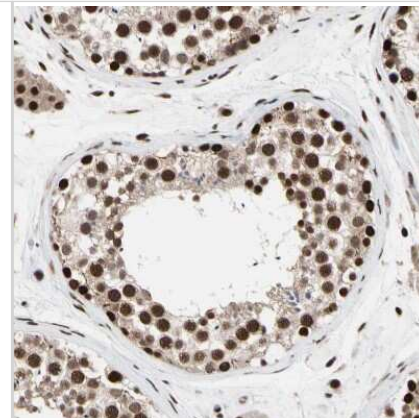
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:100-1:500, Immunohistochemistry-Paraffin 1:20-1:50
<b>Application Notes</b>	WB reported in scientific literature (PMID: 25378478). For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

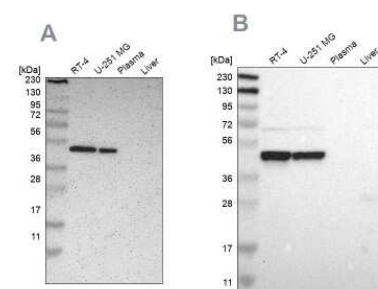
Western Blot: FAM98B Antibody [NBP1-83475] - Lane 1: Marker [kDa]  
207, 110, 79, 49, 32, 25, 17  
Lane 2: Human cell line RT-4  
Lane 3: Human cell line EFO-24



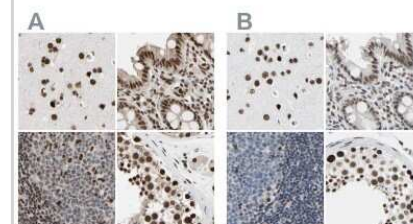
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human testis shows strong nuclear positivity in cells in seminiferous ducts.



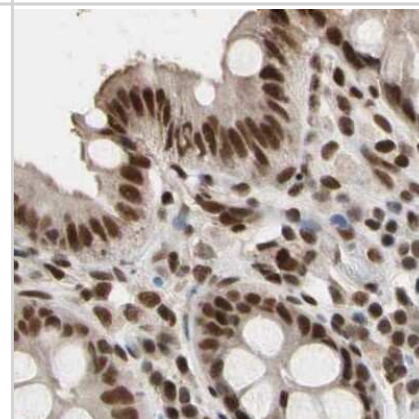
Western Blot: FAM98B Antibody [NBP1-83475] - Analysis using Anti-FAM98B antibody NBP1-83475 (A) shows similar pattern to independent antibody NBP1-83474 (B).



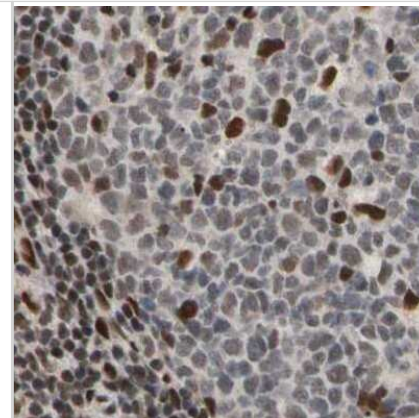
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human cerebral cortex, colon, lymph node and testis using Anti-FAM98B antibody NBP1-83475 (A) shows similar protein distribution across tissues to independent antibody NBP1-83474 (B).



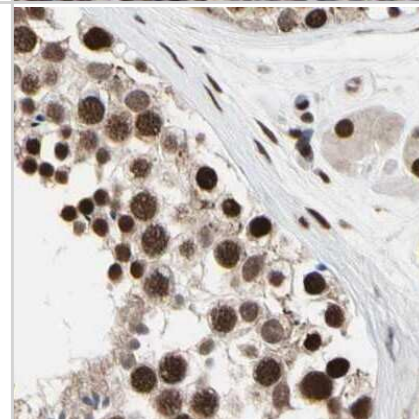
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human colon.



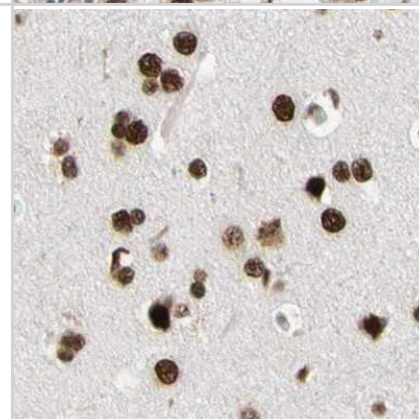
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human lymph node.



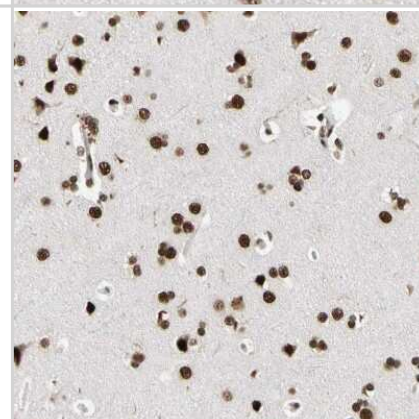
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human testis.



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

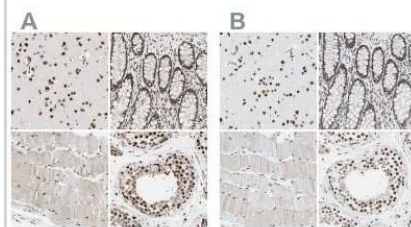


Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human cerebral cortex shows strong nuclear positivity in neuronal cells.

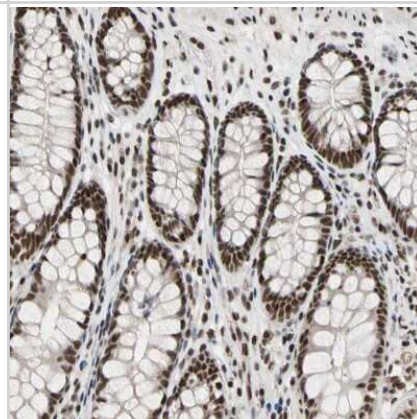




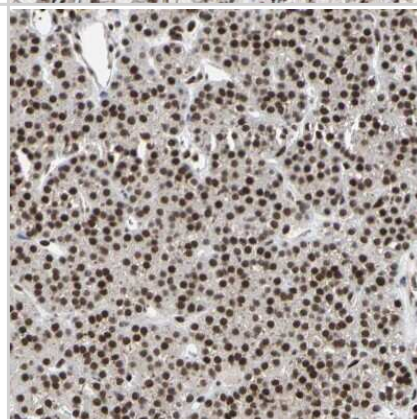
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human cerebral cortex, gastrointestinal, skeletal muscle and testis using Anti-FAM98B antibody NBP1-83475 (A) shows similar protein distribution across tissues to independent antibody NBP1-83474 (B).



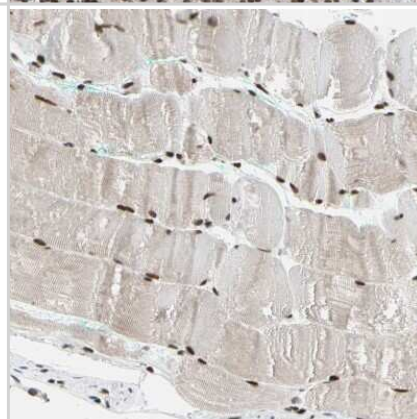
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human colon shows strong nuclear positivity in glandular cells.



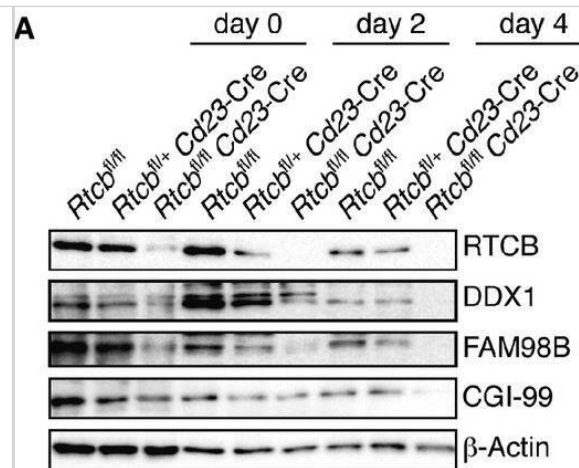
Immunohistochemistry-Paraffin: FAM98B Antibody [NBP1-83475] - Staining of human parathyroid gland shows strong nuclear positivity in glandular cells.



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 (*Rtcb<sup>fl/fl</sup>* or *Rtcb<sup>fl/+</sup>*), *Rtcb<sup>fl/+</sup>Cd23-Cre* or *Rtcb<sup>fl/fl</sup>Cd23-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**

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NBP1-83475PEP	FAM98B 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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