NXF5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NXF5, Polyclonal Antibody
Full Product Name	NXF5, NT (NXF5, TAPL1, Nuclear RNA export factor 5, TAP-like protein 1) (MaxLight 490)
Product Gene Name	anti-NXF5 antibody
Product Synonym Names	NXF5; TAPL1; Nuclear RNA export factor 5; TAP-like protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	45,628 Da
Chromosome Location	Chromosome: X; NC_000023.10 (101087085..101112549, complement). Location: Xq22
OMIM	300319
3D Structure	ModBase 3D Structure for Q9H1B4
Immunogen	NXF5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-80 amino acids from the N-terminal region of human NXF5.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-NXF5 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-NXF5 antibody	Western Blot (WB), FLISA
Application Notes for anti-NXF5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NXF5 antibody	This gene is one member of a family of nuclear RNA export factor genes. The encoded protein can bind RNA, and is implicated in mRNA nuclear export. However, this protein has lost several C-terminal protein domains found in other family members that are required for export activity, and may be an evolving pseudogene. Alternatively spliced transcript variants have been described, but most are candidates for nonsense-mediated decay (NMD) and may not express proteins in vivo.
Product References and Citations for anti-NXF5 antibody	Tarpey, P.S., et al. Nat. Genet. 41(5):535-543(2009). Hillman, R.T., et al. Genome Biol. 5 (2), R8 (2004): Frints, S.G., et al. Am. J. Med. Genet. A 119A (3), 367-374 (2003): Jun, L., et al. Curr. Biol. 11(18):1381-1391(2001). Herold, A., et al. Mol. Cell. Biol. 20(23):8996-9008(2000).

Other Notes	Small volumes of anti-NXF5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NXF5 purchase	MBS6327365 is an antibody targeting NXF5. Also known as NXF5, NT (NXF5, TAPL1, Nuclear RNA export factor 5, TAP-like protein 1) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NXF5. It may not necessarily be applicable to this product.

NCBI GI #	254039592
NCBI GeneID	55998
NCBI Accession #	NP_116564.2
UniProt Primary Accession #	Q9H1B4
UniProt Secondary Accession #	Q9H1B0; Q9H1B1; Q9H1B2; Q9H1B3; A2RRM0; B1AV82; B1AV83; B1AV84; B1AV85
UniProt Related Accession #	Q9H1B4
GenBank Nucleotide #	NM_032946.2
NCBI Official Full Name	nuclear RNA export factor 5
NCBI Official Synonym Full Names	nuclear RNA export factor 5
NCBI Official Symbol	NXF5
UniProt Protein Name	Nuclear RNA export factor 5
UniProt Synonym Protein Names	TAP-like protein 1
Protein Family	Nuclear RNA export factor
UniProt Gene Name	NXF5
UniProt Synonym Gene Names	TAPL1; TAPL-1
UniProt Entry Name	NXF5_HUMAN
NCBI Protein Information	nuclear RNA export factor 5; TAPL-1; TAP-like protein 1
UniProt Comments for NXF5	NXF5: Could be involved in the export of mRNA from the nucleus to the cytoplasm. Could also have a role in polarized cytoplasmic transport and localization of mRNA in neurons. A chromosomal aberration involving NXF5 has been observed in one patient with a syndromic form of mental retardation and short stature. Pericentric inversion inv(X)(p21.1;q22) that interrupts NXF5. Belongs to the NXF family. 6 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: Xq22 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; RNA binding; nucleotide binding Biological Process: mRNA export from nucleus; multicellular organismal development; RNA transport
Research Articles on NXF5	**1.** Mutations of the NXF5 gene is associated with X-linked mental retardation
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