#12735 Store at -20°C

NXF1 (D5X4G) Rabbit mAb

☑ 100 µl
(10 western blots)

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New 06/13

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Entrez Gene ID #10482
UniProt ID #Q9UBU9

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W Endogenous	H, M, R, Mk, (Hm, B, Dg, Pg)	70 kDa	Rabbit IgG**

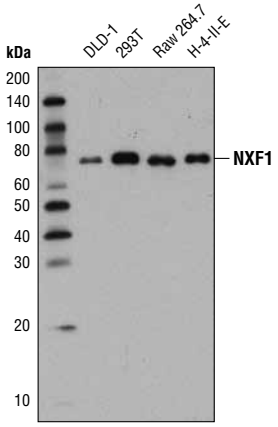
Background: mRNA export is a process that is tightly coupled to mRNA splicing (1-4). Splicing and packaging of mRNAs in the form of an mRNA-protein complex (mRNP) leads to the recruitment of the mRNA export adaptor THOC4/ALY, via its interaction with the splicing factor UAP56, forming a large complex termed the transcription-export complex (TREX) (1,2,5). THOC4/ALY then directly interacts with NXF1/TAP, a part of the heterodimer that targets the mRNP to the nuclear pore complex, resulting in the shuttling of mRNP out of the nucleus and into the cytoplasm (1-3,6).

Specificity/Sensitivity: NXF1 (D5X4G) Rabbit mAb recognizes endogenous levels of total NXF1 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln211 of human NXF1 protein.

Background References:

(1) Katahira, J. (2012) *Biochim Biophys Acta* 1819, 507-13.
(2) Siddiqui, N. and Borden, K.L. (2012) Wiley Interdiscip Rev RNA 3, 13-25.
(3) Reed, R. and Magni, K. (2001) *Nat Cell Biol* 3, E201-4.
(4) Masuda, S. et al. (2005) *Genes Dev* 19, 1512-7.
(5) Luo, M.L. et al. (2001) *Nature* 413, 644-7.
(6) Kang, Y. and Cullen, B.R. (1999) *Genes Dev* 13, 1126-39.



Western blot analysis of extracts from various cell lines using NXF1 (D5X4G) Rabbit mAb.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. *Do not aliquot the antibody.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.