Revision 1

Store at -20C

#13613

NUP88 (D7U4O) Rabbit mAb

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	88	Rabbit IgG	#Q99567	4927

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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.

Specificity/Sensitivity

NUP88 (D7U4O) Rabbit mAb recognizes endogenous levels of total NUP88 protein.

Species predicted to react based on 100% sequence homology

Hamster, Bovine, Dog

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly676 of human NUP88 protein.

Background

The nuclear pore complex (NPC) is a multi-subunit protein channel that spans the nuclear envelope and is responsible for the nucleocytoplasmic trafficking of RNA, proteins, and ribonucleoproteins (1). The 88 kDa nucleoporin protein (NUP88) is located on the cytoplasmic side of the NPC and found to be a part of a subcomplex with the NUP214 NPC subunit (1-3). This NUP88/NUP214 subcomplex interacts with CRM-1/exportin-1 to play an important role in the export of proteins, including the 60S ribosomal particle from the nucleus (4,5). Research studies demonstrate elevated expression and cytoplasmic accumulation of NUP88, visible as granular dots, in ovarian, prostate, and breast cancers (6-9). Increased NUP88 levels correlate with higher tumor grade, suggesting that NUP88 may be a putative tumor marker (1,7).

Background References

1. Xu, S. and Powers, M.A. (2009) *Semin Cell Dev Biol* 20, 620-30.
2. Bastos, R. et al. (1997) *J Cell Biol* 137, 989-1000.
3. Fornerod, M. et al. (1997) *EMBO J* 16, 807-16.
4. Roth, P. et al. (2003) *J Cell Biol* 163, 701-6.
5. Bernad, R. et al. (2006) *J Biol Chem* 281, 19378-86.
6. Martínez, N. et al. (1999) *Cancer Res* 59, 5408-11.
7. Siddiqui, N. and Borden, K.L. (2012) *Wiley Interdiscip Rev RNA* 3, 13-25.
8. Gould, V.E. et al. (2002) *Hum Pathol* 33, 536-44.
9. Gould, V.E. et al. (2000) *Am J Pathol* 157, 1605-13.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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Limited Uses

force or effect.

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