Revision 1

#9983 Store at -20C

NCBP1/CBP80 Antibody

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	80	Rabbit	#Q09161	4686

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

Storage

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

Specificity / Sensitivity

NCBP1/CBP80 recognizes endogenous levels of total NCBP1/CBP80 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val452 of human NCBP1/CBP80 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Nuclear cap-binding protein subunit 1 (NCBP1), also known as cap-binding protein 80 (CBP80), plays a role in nuclear pre-mRNA splicing (1,2). It has also been shown to function in the nonsense-mediated decay (NMD) of mRNAs where translation is prematurely terminated (3). NCBP1/CBP80 increases the efficiency of NMD by promoting the interaction of two active NMD components Upf1 and Upf2 (4).

Background References

1. Izaurralde, E. et al. (1994) *Cell* 78, 657-68.
2. Izaurralde, E. et al. (1995) *Nature* 376, 709-12.
3. Ishigaki, Y. et al. (2001) *Cell* 106, 607-17.
4. Hosoda, N. et al. (2005) *Nat Struct Mol Biol* 12, 893-901.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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 **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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