Revision 1

Store at -20C

#12660

CABIN1 (D2B9F) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	230	Rabbit IgG	#Q9Y6J0	23523

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100

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

CABIN1 (D2B9F) Rabbit mAb recognizes endogenous levels of total CABIN1 protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CABIN1 protein.

Background

Calcineurin binding protein CABIN1 was originally identified as an inhibitor of the calcium-dependent serine/threonine phosphatase, calcineurin. CABIN1 inhibits calcineurin signaling in T cells, regulating T cell receptor (TCR) signaling, transcription, and apoptosis (1-4). CABIN1 represses myocyte enhancer factor 2 (MEF2)-mediated transcription by recruiting chromatin remodeling enzymes (5), and also negatively regulates the activity of the tumor suppressor p53 (6). In response to genotoxic stress, CABIN1 is degraded and releases its inhibition of p53, allowing p53 to elicit cellular stress responses (7). CABIN1 is also involved in regulation of chromatin structure as part of the highly conserved HIRA/UBN1/CABIN1/ASF1A (HUCA) histone chaperone complex (8,9).

Background References

1. Sun, L. et al. (1998) *Immunity* 8, 703-11.
2. Youn, H.D. and Liu, J.O. (2000) *Immunity* 13, 85-94.
3. Liu, W. et al. (2001) *Eur J Immunol* 31, 1757-64.
4. Kim, M.J. et al. (2002) *Proc Natl Acad Sci U S A* 99, 9870-5.
5. Jang, H. et al. (2007) *J Biol Chem* 282, 11172-9.
6. Jang, H. et al. (2009) *Nat Struct Mol Biol* 16, 910-5.
7. Choi, S.Y. et al. (2013) *Nucleic Acids Res* 41, 2180-2190.
8. Rai, T.S. et al. (2011) *Mol Cell Biol* 31, 4107-18.
9. Tang, Y. et al. (2012) *Biochemistry* 51, 2366-77.

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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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Limited Uses

force or effect.

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