#12660 Store at -20°C

CABIN1 (D2B9F) Rabbit mAb

☑ 100 µl
(10 western blots)

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Entrez-Gene ID #23523
Swiss-Prot Acc. #Q9Y6J0

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP	H, (Mk)	230 kDa	Rabbit IgG**
Endogenous			

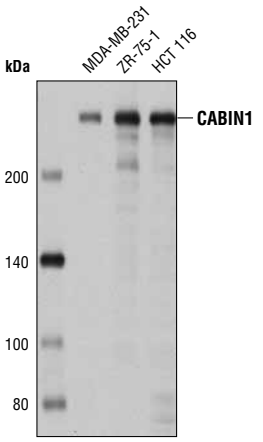
Background: Calcineurin binding protein CABIN1 was originally identified as an inhibitor of the calcium-dependent serine/threonine phosphatase, calcineurin. CABIN1 inhibits calcineurin signaling in T cells, regulating T cell receptor (TCR) signaling, transcription, and apoptosis (1-4). CABIN1 represses 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).

Specificity/Sensitivity: CABIN1 (D2B9F) Rabbit mAb recognizes endogenous levels of total CABIN1 protein.

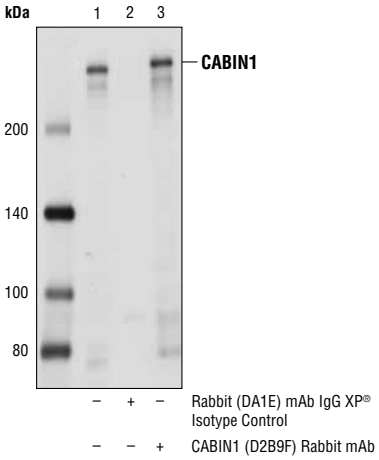
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CABIN1 protein.

Background 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.



Western blot analysis of extracts from various cell lines using CABIN1 (D2B9F) Rabbit mAb.



Immunoprecipitation of CABIN1 from HCT 116 cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or CABIN1 (D2B9F) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using CABIN1 (D2B9F) 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
Immunoprecipitation	1:100

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 nonfat dry milk, 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.