Revision 1

Dexras1 Antibody

Cell Signaling
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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	Endogenous	30	Rabbit	#Q9Y272	51655

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 and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Dexras1 Antibody detects endogenous levels of total Dexras1 protein. The antibody also cross-reacts with a 60 kDa protein of unknown origin.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Dexras1 protein. Antibodies were purified by protein A and peptide affinity chromatography.

Background

Dexras1 (Ras dexamethasone induced 1) belongs to the Ras superfamily of GTPases and was initially identified as a dexamethasone inducible gene (1,2). Dexras1 reportedly regulates several distinct signal transduction pathways, including MAPK signaling, NMDA receptor-nitric oxide-mediated signaling, and pathways involving adenylyl cyclases (3-5). Dexras1 can directly modulate FE65-APP-mediated transcription and regulate the photic sensitivity of the mammalian circadian clock (6,7).

Background References

1. Kemppainen, R.J. and Behrend, E.N. (1998) *J Biol Chem* 273, 3129-31.
2. Tu, Y. and Wu, C. (1999) *Biochim Biophys Acta* 1489, 452-6.
3. Fang, M. et al. (2000) *Neuron* 28, 183-93.
4. Graham, T.E. et al. (2004) *Biochem Biophys Res Commun* 316, 307-12.
5. Nguyen, C.H. and Watts, V.J. (2005) *Biochem Biophys Res Commun* 332, 913-20.
6. Cheng, H.Y. et al. (2006) *J Neurosci* 26, 12984-95.
7. Lau, K.F. et al. (2008) *J Biol Chem* 283, 34728-37.

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

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