

#12744 Store at -20°C

MEIS1/2 Antibody

**Cell Signaling**
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Transfected Only	50, 70	Rabbit	#O14770, #O00470	4212, 4211

Product Usage Information**Application**

Western Blotting

Dilution

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

MEIS1/2 Antibody recognizes transfected levels of total MEIS1 and MEIS2 proteins.

Species predicted to react based on 100% sequence homology:

Mouse

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MEIS1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Hox, Pbx, and Meis are families of transcription factors that bind DNA via their homeodomains. Members from each family form heterodimers to give rise to complexes with unique DNA binding specificities. Homeodomain containing proteins are frequently involved in normal developmental processes, but can also be associated with tumorigenic states (1). MEIS proteins belong to the TALE (Three Amino Acid Loop Extension) homeobox containing transcription factor family. MEIS1 has been associated with leukemogenesis and neuroblastoma (2,3) while MEIS2 is known to play an important role in the transcriptional program that is induced in normal pancreatic development (4) and cardiogenesis (5).

Background References

1. Eklund, E. (2011) *Crit Rev Oncog* 16, 65-76.
2. Wong, P. et al. (2007) *Genes Dev* 21, 2762-74.
3. Geerts, D. et al. (2003) *Cancer Lett* 197, 87-92.
4. Swift, G.H. et al. (1998) *Mol Cell Biol* 18, 5109-20.
5. Paige, S.L. et al. (2012) *Cell* 151, 221-32.

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**WB:** Western Blotting**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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