

LMO4 (D6V4Z) Rabbit mAb

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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 16	Source/Isotype: Rabbit IgG	UniProt ID: #P61968	Entrez-Gene Id: 8543
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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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

LMO4 (D6V4Z) Rabbit mAb recognizes endogenous levels of total LMO4 protein.

Species predicted to react based on 100% sequence homology

Rat

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human LMO4 protein.

Background

LMO4 is a LIM zinc-binding domain-containing protein. LMO4 cDNA was first isolated from a breast tumor cDNA library (1). This transcriptional modulator is overexpressed in several epithelial cancers such as prostate, pancreas, and breast (2-4). LMO4 exhibits pro-oncogenic activities by inducing centrosome amplification and mitotic spindle abnormalities (5). LMO4 is also expressed in the brain, in regions involved in learning and the regulation of motivated behavior. In the basolateral amygdala, LMO4 functions to negatively regulate fear learning (6). Furthermore, in the nucleus accumbens, LMO4 was found to regulate the behavioral effects of cocaine (7).

Background References

1. Racevskis, J. et al. (1999) *Biochim Biophys Acta* 1445, 148-53.
2. Mousses, S. et al. (2002) *Cancer Res* 62, 1256-60.
3. Visvader, J.E. et al. (2001) *Proc Natl Acad Sci U S A* 98, 14452-7.
4. Yu, J. et al. (2008) *Mol Cancer* 7, 93.
5. Montañez-Wiscovich, M.E. et al. (2010) *J Pathol* 222, 271-81.
6. Maiya, R. et al. (2012) *PLoS One* 7, e34559.
7. Lasek, A.W. et al. (2010) *Genes Brain Behav* 9, 817-24.

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 **M:** Mouse

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