

# LMO2 clone 1A9-1

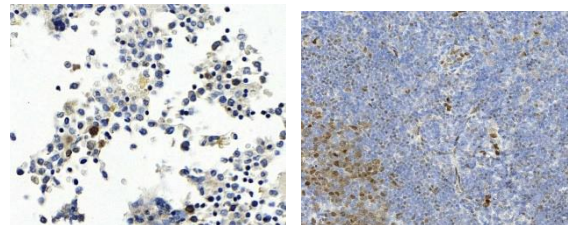
## Instructions for Use

### Specification:

The LIM-only (LMO) proteins, LMO1 and LMO2, are nuclear factors that are characterized by a conserved LIM domain. The LIM domain consists of a cysteine-rich zinc-binding motif that is present in a variety of transcription factors, including the LIM homeobox (LHX) proteins expressed in the central nervous system and involved in cell differentiation. LMO1 and LMO2 are expressed in the adult CNS in a cell type-specific manner, where they are differentially regulated by neuronal activity and are involved in regulating the cellular differentiated phenotype of neurons. LMO2 lacks a specific DNA-binding homeobox domain but rather assembles into transcriptional regulatory complexes to mediate gene expression by interacting with the widely expressed nuclear LIM interactor (NLI). NLI, known also as CLIM-1, and the related protein CLIM-2 facilitate the formation of heteromeric LIM complexes and also enhance the nuclear retention of LIM proteins. LMO2 and the related protein LMO4 are expressed in thymic precursor cells. LMO4 is also expressed in mature T cells, cranial neural crest cells, somite, dorsal limb bud mesenchyme, motor neurons, and Schwann cell progenitors.

### Availability:

Catalog No.	Contents	Volume
ILM2400-C01	LMO2	0,1 ml concentrate
ILM2400-C05	LMO2	0,5 ml concentrate
ILM2400-C1	LMO2	1,0 ml concentrate



**Intended use:** For Research Use Only

**Reactivity:** Human

**Clone:** 1A9-1

**Species of origin:** Mouse

**Isotype:** IgG

**Control Tissue:** Tonsil, salivary gland

**Staining:** Cytoplasmic

**Immunogen:** Recombinant LMO2 of human origin

**Presentation:** Each vial contains 200 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin

### Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0 for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution 1:100-1:200)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

**Reference:**

- 1) Zhang, J., et al. 2009. Blood 113: 4586-4594.
- 2) Copie-Bergman, C., et al. 2009. J. Clin. Oncol. 27: 5573-5579.
- 3) Sonmez, M., et al. 2009. Hematology 14: 220-223.
- 4) Cobanoglu, U., et al. 2010. Hematology 15: 132-134.
- 5) Li, D., et al. 2012. Ann. Diagn. Pathol. 16: 335-343.
- 6) Chen, B.B., et al. 2013. Chin. Med. J. 126: 482-487.