



**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to MSX1

**Catalog Number:** MAB-606030197

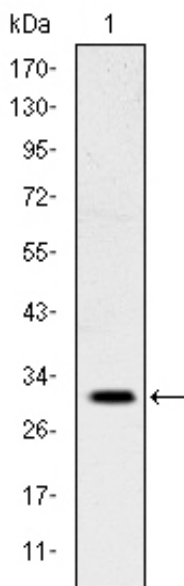


Figure 1: Western blot analysis using MSX1 mouse mAb against NTERA-2 cell lysate.

Lot#:  
Clone#: 5D11  
Host and isotype: Mouse IgG1  
Size: 0.1ml  
MW: 31kDa  
Aliases: HOX7; HYD1; STHAG1; MSX1  
Entrez Gene: 4487  
Species reactivity: Human

**Description** Drosophila, muscle segment (msh) homolog 1, homeo domain encoding gene, inhibiting MYOD1 expression, highly expressed in dental mesenchyme during critical bud stage, involved in epithelial-mesenchymal signaling in many organs, and in the pathogenesis of cleft lip and palate, interacting with MSX2 in mouse limb bud patterning. This gene encodes a member of the muscle segment homeobox gene family. The encoded protein functions as a transcriptional repressor during embryogenesis through interactions with components of the core transcription complex and other homeoproteins. It may also have roles in limb-pattern formation, craniofacial development, particularly odontogenesis, and tumor growth inhibition. Tissue specificity: Expressed in the developing nail bed mesenchyme.

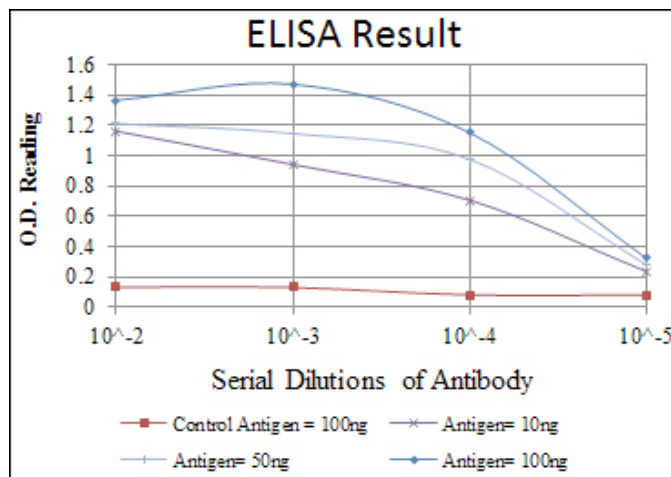
**Immunogen** Purified recombinant fragment of human MSX1 expressed in E. Coli.

**Application** Western Blotting: 1/500 - 1/2000.  
ELISA: Propose dilution 1/10000.  
Not yet tested in other applications.  
Determining optimal working dilutions by titration test.

**Storage** Store at 4°C, for long term storage, store at -20°C.

#### Related product References

1. Zhonghua Kou Qiang Yi Xue Za Zhi. 2008 Mar;43(3):157-9.
2. Endocr Pathol. 2008 Spring;19(1):54-61.



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