



# MSX1 Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-04969
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	MSX1 HOX7
<b>Protein Name</b>	Homeobox protein MSX-1 (Homeobox protein Hox-7) (Msh homeobox 1-like protein)
<b>Immunogen</b>	Synthesized peptide derived from human protein . at AA range: 70-150
<b>Specificity</b>	MSX1 Monoclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-1:2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	32kD
<b>Cell Pathway</b>	Nucleus.
<b>Tissue Specificity</b>	Expressed in the developing nail bed mesenchyme.
<b>Function</b>	disease:A chromosomal aberration involving MSX1 is a cause of Wolf-Hirschhorn syndrome (WHS) [MIM:194190]. WHS is caused by sub-telomeric deletions in the short arm of chromosome 4. WHS is characterized by profound mental retardation, heart defects, and facial clefting.,disease:Defects in MSX1 are a cause of autosomal dominant hypodontia (HYD1) [MIM:106600]; also known as familial or selective tooth agenesis. Absence of less than 6 teeth is referred to as hypodontia. Agenesis of one or more teeth constitutes one of the most common developmental anomalies in man. Reported incidences vary from 1.6% to 9.6%, excluding third molar (Wisdom tooth) agenesis, which occurs in 20% of the population.,disease:Defects in MSX1 are the cause of non-syndromic orofacial cleft type 5 (OFC5) [MIM:608874]; also called non-syndromic cleft lip with or without cleft palate 5. Non-syndromic orofacial cleft is a
<b>Background</b>	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. Mutations in this gene, which was once known as homeobox 7, have been associated with nonsyndromic cleft lip with or without cleft palate 5, Witkop syndrome, Wolf-Hirschorn syndrome, and autosomal dominant hypodontia. [provided by RefSeq, Jul 2008],

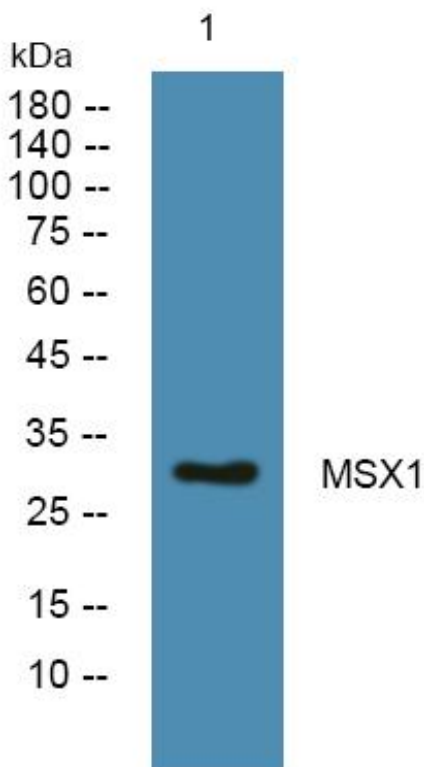
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using MSX1 Monoclonal Antibody