

Product datasheet

Anti-MOX1 antibody ab55715

1 Image

Overview

Product name	Anti-MOX1 antibody
Description	Mouse monoclonal to MOX1
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment: PEGSSKARKE RTAFTKEQLR ELEAEFAHHN YLTRLRRYEI AVNLDLSERQ VKVWFQNR RM KWKR VKGGQP ISPNGQDPED GDSTASPS, corresponding to amino acids 165-253 of Human MOX1 Run BLAST with ExPASy Run BLAST with NCBI

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab55715** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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WB

Application notes WB: Use at a concentration of 1-5 µg/ml.

This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Mesodermal transcription factor that plays a key role in somitogenesis and is specifically required for sclerotome development. Required for maintenance of the sclerotome polarity and formation of the cranio-cervical joints (PubMed:23290072, PubMed:24073994). Binds specifically to the promoter of target genes and regulates their expression. Activates expression of NKX3-2 in the sclerotome. Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation. While it activates CDKN1A in a DNA-dependent manner, it activates CDKN2A in a DNA-independent manner. Required for hematopoietic stem cell (HSCs) induction via its role in somitogenesis: specification of HSCs occurs via the deployment of a specific endothelial precursor population, which arises within a sub-compartment of the somite named endotome.

Involvement in disease

Klippel-Feil syndrome 2, autosomal recessive

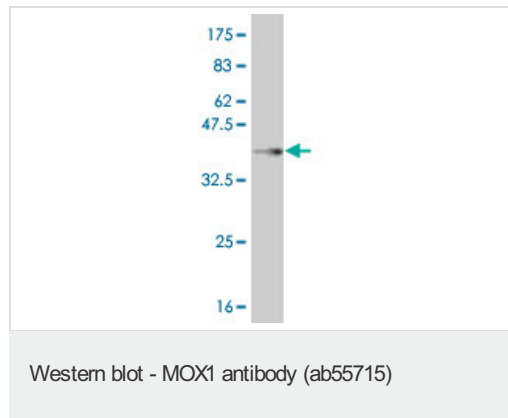
Sequence similarities

Contains 1 homeobox DNA-binding domain.

Cellular localization

Nucleus. Cytoplasm. Localizes predominantly in the nucleus.

Images



Western blot against tagged recombinant protein immunogen using ab55715 MOX1 antibody at 1ug/ml. Predicted band size of immunogen is 36 kDa

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