

Anti-Myf5 Picoband Antibody
Catalog # ABO13024**Specification**

Anti-Myf5 Picoband Antibody - Product Information

Application	WB
Primary Accession	P13349
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Myf5 detection. Tested with WB, Direct ELISA in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Myf5 Picoband Antibody - Additional Information

Gene ID 4617

Other Names

Myogenic factor 5, Myf-5, Class C basic helix-loop-helix protein 2, bHLHc2, MYF5, BHLHC2

Application Details

Western blot, 0.1-0.5 µg/ml

 Direct ELISA, 0.1-0.5 µg/ml

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E. coli-derived human Myf5 recombinant protein (Position: E25-Y146).

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.

Anti-Myf5 Picoband Antibody - Protein Information

Name MYF5

Synonyms BHLHC2**Function**

Transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation (PubMed:29887215). Together with MYOG and MYOD1, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Probable sequence specific DNA-binding protein.

Cellular Location

Nucleus.

Anti-Myf5 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

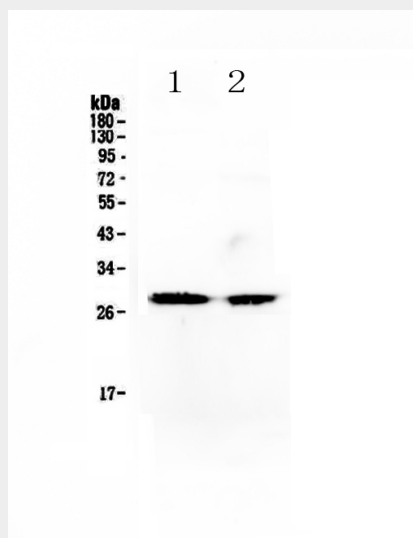
Anti-Myf5 Picoband Antibody - Images

Figure 1. Western blot analysis of Myf5 using anti-Myf5 antibody (ABO13024).

Anti-Myf5 Picoband Antibody - Background

Myogenic factor 5 is a protein that in humans is encoded by the MYF5 gene. It is a protein with a key role in regulating muscle differentiation or myogenesis, specifically the development of skeletal muscle. Myf5 belongs to a family of proteins known as myogenic regulatory factors (MRFs). This transcription factor is the earliest of all MRFs to be expressed in the embryo, where it is only markedly expressed for a few days (specifically around 8 days post-somite formation and lasting until day 14 post-somite in mice). It functions during that time to commit myogenic precursor cells

to become skeletal muscle. In fact, its expression in proliferating myoblasts has led to its classification as a determination factor. Furthermore, Myf5 is a master regulator of muscle development, possessing the ability to induce a muscle phenotype upon its forced expression in fibroblastic cells.