DATA SHEET

Myogenin Ab-1 (Clone F5D)

Mouse Monoclonal Antibody

Cat. #DLN-06403, DLN-06404, or DLN-06402 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #DLN-06405 or DLN-06406 (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #DLN-06407 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Description: Myogenin is a member of a family of myogenic regulatory genes, which includes MyoD, myf5 and MRF4. These genes encode a set of transcription factors, which are essential for muscle development. Transfection of myogenin into multipotential mesodermal cells have been shown to convert the mesodermal cells to myoblasts. Expression of myogenin is restricted to cells of skeletal muscle origin. It is therefore a useful marker for tumors of the muscle lineage, being strongly expressed in alveolar rhabdomyosarcomas.

Comments: Ab-1 can immunoprecipitate protein-DNA complex.

Mol. Wt. of Antigen: 34kDa

Epitope: aa 138-158

Species Reactivity: Human, Mouse, Rat, and Cat. Does not react with quail. Others not known.

Clone Designation: F5D

Ig Isotype / Light Chain: IgG_1 / κ

Immunogen: Recombinant protein containing rat myogenin aa 30-224.

Applications and Suggested Dilutions

- Gel Supershift (Order Ab at 1mg/ml)
- Immunofluorescence
- Immunoprecipitation (Native verified)
  (Use Protein G; Ab 2µg/mg protein lysate)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistology (Formalin/paraffin)
  (Ab 1-2µg/ml for 30 min at RT)

* [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.]

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

Cellular Localization: Nuclear

Positive Control: Rh30 cells. Rhabdomyosarcoma or Wilm's tumors.

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Cat. #DLN-06407 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Supplied As:

200µg/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.
Also available without BSA and azide at 1mg/ml,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Suggested References:

1. Wright WE, et al. Dev Genet 19: 131-138 (1996).
2. Wright WE, et al. Cell 1989; 56:607.
3. Aurade F, et al. Differentiation 1994; 55:185.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

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