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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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MyoD1. Mouse Monoclonal Antibody

BACKGROUND

Recognizes a protein of 45kDa, identified as MyoD1. The epitope of this antibody maps in between amino acid 3-56 in the N-terminus of mouse MyoD1 protein. It does not cross react with myogenin, Myf5, or Myf6. Occasionally nuclear expression/staining of MyoD1 is seen in ectomesenchymoma and a subset of Wilm's tumors. Weak cytoplasmic staining/presence is observed in several non-muscle tissues, including glandular epithelium and also in rhabdomyosarcomas, neuroblastomas, Ewing's sarcomas and alveolar soft part sarcomas. The 5.2F antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues. MyoD1 is not detected in normal adult tissue. Occasionally nuclear expression of MyoD1 is seen in ectomesenchymoma and a subset of Wilm's tumors.

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with recombinant mouse MyoD1 protein and mouse myeloma Sp2/0-Ag14 cells.

POSITIVE CONTROL/TISSUE EXPRESSION

Rhabdomyosarcoma, SW80 cells

COMMENTS

This antibody can be used for electron microscopy, ELISA, immunofluorescence, immunoprecipitation (2 $\mu\text{g}/\text{mg}$ of protein lysate), Western blotting (1 $\mu\text{g}/\text{ml}$) and immunohistochemistry on frozen and formalin/paraffin fixed tissues (2-4 $\mu\text{g}/\text{ml}$). Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER

X2396M

SIZE

100 μg

FORM

Unconjugated

HOST/CLONE

Mouse Clone 5.8A

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG1

APPLICATIONS

ELISA, Western Blot, Immunoprecipitation,

SPECIES REACTIVITY

Human, Mouse, Rat, Chicken

ACCESSION NUMBER

P15172, Human

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

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2. Wesche WA; et al. Immunohistochemistry of MyoD1 in adult pleomorphic soft tissue sarcomas. *American Journal of Surgical Pathology*, 1995, 19(3):261-9.
3. Parham DM; et al. Immunohistochemical analysis of the distribution of MyoD1 in muscle biopsies of primary myopathies and neurogenic atrophy. *Acta Neuropathologica*, 1994, 87:605-11.
4. Tallini G; et al. Myogenic regulatory protein expression in adult soft tissue sarcomas. A sensitive and specific marker of skeletal muscle differentiation. *American Journal of Pathology*, 1994 Apr, 144(4):693-701.
5. Dias P; et al. Monoclonal antibodies to the myogenic regulatory protein MyoD1: epitope mapping and diagnostic utility. *Cancer Research*, 1992 Dec 1, 52(23):6431-9.
6. Rosai J; et al. MyoD1 protein expression in alveolar soft part sarcoma as confirmatory evidence of its skeletal muscle nature. *American Journal of Surgical Pathology*, 1991 Oct, 15(10):974-81.