

MyoD1 clone EP212

Rabbit Monoclonal Antibody

Instructions For Use

Specification:

The MyoD1 gene belongs to a family of myogenic determination genes, including Myogenin, myf-5 and MRF4, all of which encode transcription factors. Transfection of MyoD1 cDNA into non-muscle cells has been shown to activate expression of muscle specific genes and in some cases induce myogenesis. The MyoD1 protein is a 45 kD nuclear phosphoprotein which induces myogenesis through transcriptional activation of muscle specific genes. Nuclear expression of MyoD1 is restricted to skeletal muscle tissue and has been demonstrated to be a sensitive marker of myogenic differentiation. MyoD1 is not detected in normal adult tissue but is highly expressed in the tumor cell nuclei of rhabdomyosarcomas. Occasionally nuclear expression of MyoD1 is seen in ectomesenchymoma and a subset of Wilm's tumors. Weak cytoplasmic staining is observed in several non-muscle tissues, including glandular epithelium and also in rhabdomyosarcomas, neuroblastomas, Ewing's sarcomas and alveolar soft part sarcomas.

Availability:

Catalog No.	Contents	Volume
ILM1212-C01	MyoD1 clone EP212	0,1 ml concentrate
ILM1212-C05	MyoD1 clone EP212	0,5 ml concentrate
ILM1212-C1	MyoD1 clone EP212	1,0 ml concentrate

Intended use: For Research Use Only

Reactivity: Human, others not known

Clone: EP212

Species of origin: Rabbit

Isotype: IgG

Control tissue: Rhabdomyosarcoma

Staining: Nuclear and cytoplasmic

Immunogen: A synthetic peptide corresponding to residues of human MyoD1 protein

Presentation: Purified antibody is diluted in Tris-HCL buffer containing stabilizing protein and <0,1% Sodium Azide.

Application and suggested dilutions:

Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Paraffin embedded tissue section, dilution up to 1:25-1:100

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

Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-Rabbit secondary antibody-based detection is recommended.

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

References:

- 1) Morotti Ra, et al. AM J Surg Pathol. 2006; 30:962-968.
- 2) Sebire NJ, et al. J Clin Pathol. 2003; 56:412-416.