

MyoD1 (Clone EP212) Rabbit Monoclonal Antibody

Specificity: Human. Others-not known

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

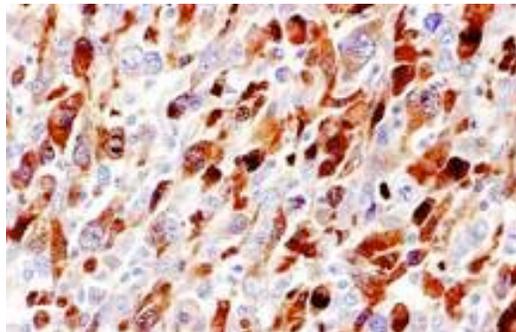
Ig Class: Rabbit IgG

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100; *Detection methods:* Positive Control: Rhabdomyosarcoma. *Cellular Localization:* Nuclear and cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

Description: 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 musclespecific 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 ectomesenchymal 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.

Supplied As: Antibody purified from ascites fluid by protein G chromatography in 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human rhabdomyosarcoma stained with anti-MyoD1 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear/cytoplasmic staining of sarcoma cells

Cat. #Z2261 (1.0 ml)