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Datasheet for ABIN7127250

Recombinant anti-ACTA1/ACTA2A/ACTG2 antibody

Overview

Quantity:	100 µg
Target:	ACTA1/ACTA2A/ACTG2
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This ACTA1/ACTA2A/ACTG2 antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Western Blotting (WB)

Product Details

Immunogen:	Recombinant protein corresponding to human muscle actin
Isotype:	IgG1
Specificity:	This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium. Actin can be resolved on the basis of its isoelectric points into three distinctive components: alpha, beta, and gamma in order of increasing isoelectric point. Anti-muscle specific actin recognizes alpha and gamma isotypes of all muscle groups. Non-muscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of non-muscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. It stains tumors of smooth muscle (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).
Cross-Reactivity (Details):	Human, Rabbit and Rat.

Product Details

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: ACTA1/ACTA2A/ACTG2

Abstract: [ACTA1/ACTA2A/ACTG2 Products](#)

Background: ACTA, ACTA1, ACTA2, ACTC1, Actin, ACTSA, Alpha-2 actin, alpha skeletal muscle, Alpha-actin-1, Cardiac muscle alpha actin-1, Skeletal muscle alpha actin-1, Actin, Muscle Specific (Muscle Cell Marker)

Cellular localisation: Cytoplasm.

Molecular Weight: 42kDa

Gene ID: 58, 59, 70

UniProt: [P62736](#), [P68032](#), [P68133](#)

Application Details

Application Notes: Known_Application: Western Blot (0.5-1.0 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-2 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

Positive_Control: Muscle or sarcoma.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: Prepared in 10 mM PBS, WITHOUT BSA and Azide.

Preservative: Azide free

Storage: -20 °C, -80 °C

Storage Comment: Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.

Expiry Date: 24 months