

Activin-A Rat

Activin-A Rat Recombinant
GRF0008

Product Overview

Name Activin-A Rat

Description

Activin-A Rat Recombinant

Accession (Primary) [P18331](#)

Immunogen

Anti-human ACTN1 mAb, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACTN1 protein 1-249 amino acids purified from E. coli.

Synonyms

ACTN1, Actinin, Alpha 1, Alpha-Actinin Cytoskeletal Isoform, F-Actin Cross-Linking Protein, Non-Muscle Alpha-Actinin-1, BDPLT15, Actinin 1 Smooth Muscle, Alpha-Actinin-1.

Introduction

ACTN1 encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments.

Physical Appearance

Sterile filtered colorless solution.

Formulation

1mg/ml containing PBS, pH-7.4, 10% Glycerol and 0.02% Sodium Azide.

Applications

ACTN1 antibody has been tested by ELISA, Western blot analysis and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Type

Mouse Anti Human Monoclonal.

Clone

PAT1D10AT.

Ig Subclass

Mouse IgG 2a heavy chain and k light chain.

Purification Method

ACTN1 antibody was purified from mouse ascitic fluids by protein-A affinity chromatography.

Storage Procedures

For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Stability / Shelf Life

12 months at -20°C. 1 month at 4°C.

Precautions

Activin-A Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P18331](#))