

Datasheet for ABIN5706828
anti-Biotin antibody



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1 Image

Overview

Quantity:	1 mg
Target:	Biotin
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Biotin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	Biotin Monoclonal Antibody
Immunogen:	Immunogen: Anti-Biotin Antibody was produced by repeated immunizations with Biotin conjugated to Keyhole Limpet Hemocyanin (b-KLH). Immunogen Type: Other
Clone:	4C7-D5
Isotype:	IgG2a lambda
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-mouse serum, Biotin conjugated IgG and Biotin conjugated Bovine Serum Albumin.
Characteristics:	Synonyms: mouse anti-Biotin Monoclonal Antibody, Biotin Antibody, Vitamin H, Coenzyme R
Purification:	Anti-Biotin Antibody was prepared from mouse ascites by Protein A chromatography sepharose beads.

Product Details

Sterility: Sterile filtered

Target Details

Target: Biotin

Abstract: [Biotin Products](#)

Target Type: Chemical

Background: Background: Biotin Antibody detects Biotin. Biotin is a water-soluble B-complex vitamin (vitamin B7). It is composed of a ureido (tetrahydroimidizalone) ring fused with a tetrahydrothiophene ring. A valeric acid substituent is attached to one of the carbon atoms of the tetrahydrothiophene ring. Biotin is a coenzyme for carboxylase enzymes, involved in the synthesis of fatty acids, isoleucine, and valine, and in gluconeogenesis. Biotin is necessary for cell growth, the production of fatty acids, and the metabolism of fats and amino acids. Anti-Biotin Antibody is ideal for investigators involved in Cell Signaling and Cell Biology research.

Application Details

Application Notes: Flow Cytometry Dilution: 1-2 µg/mL
Immunohistochemistry Dilution: 1:1,000 - 1:5,000
Application Note: Anti-Biotin antibody has been tested in ELISA, western, blot and immunofluorescence and is suitable for lateral flow, immunoprecipitation, immunodiffusion, conjugation and most immunological methods requiring lot-to-lot consistency, high titer and specificity.
Western Blot Dilution: 1:2,000 - 1:10,000
ELISA Dilution: 1:20,000
IF Microscopy Dilution: 2 µg/mL

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

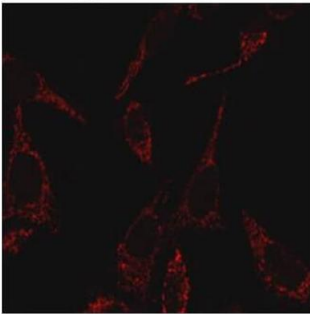
Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: None
Preservative: 0.01 % (w/v) Sodium Azide

Handling

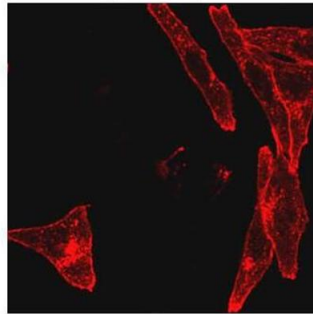
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store Anti-Biotin at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images

No Primary Antibody
(gain = 800)



Biotinylated anti-TfR
(gain 600)



Fluorescence Microscopy

Image 1. Immunofluorescence Microscopy of Mouse Anti-Biotin antibody. Tissue: HeLa cells. Fixation: 0.5 % PFA. Antigen retrieval: not required. Primary antibody: Biotinylated anti-transferrin receptor antibody. Secondary antibody: CF™488A anti-biotin secondary antibody at 2 µg/mL for 45 min at RT. Localization/Staining: plasma membrane and endosome.