

Product datasheet for **TA396746**

Mouse Monoclonal Antibody [Clone ID: 4C7.D5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4C7.D5
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	WB: 1:2,000 - 1:10,000 IHC: 1:1,000 - 1:5,000 IF: 2ug/mL FC: 1-2 µg/mL ELISA: 1:20,000
Host:	Mouse
Isotype:	IgG2a, lambda
Clonality:	Monoclonal
Immunogen:	Anti-Biotin Antibody was produced by repeated immunizations with Biotin conjugated to Keyhole Limpet Hemocyanin (b-KLH).
Specificity:	Anti-Biotin Antibody was prepared from mouse ascites by Protein A chromatography sepharose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-mouse serum, Biotin conjugated IgG and Biotin conjugated Bovine Serum Albumin.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	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.
Stability:	Expiration date is one (1) year from date of receipt.



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Background:

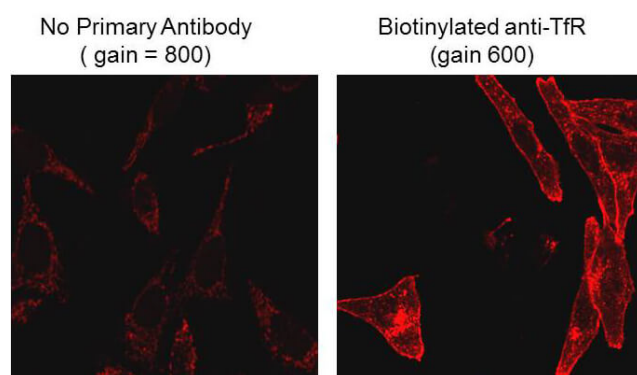
Biotin Antibody detects Biotin. Biotin is a water-soluble B-complex vitamin (vitamin B7). It is composed of a ureido (tetrahydroimidizalone) ring fused with a tetrahydrothiophene ring. A valeric acid substituent is attached to one of the carbon atoms of the tetrahydrothiophene ring. Biotin is a coenzyme 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.

Synonyms:

mouse anti-Biotin Monoclonal Antibody, Biotin Antibody, Vitamin H, Coenzyme R

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.

Product images:

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 2ug/mL for 45 min at RT. Localization/Staining: plasma membrane and endosome.