Datasheet for ABIN6720721

anti-His Tag antibody (Cy3)

3 Images

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Overview

Quantity:	50 µg
Target:	His Tag
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This His Tag antibody is conjugated to Cy3
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Dot Blot (DB), Fluorescence Microscopy (FM), FLISA

Product Details

Purpose:	6X His Tag CY3 Conjugated Antibody
Immunogen:	HIS Tag antibody was produced in mice by repeated immunizations with 6X His epitope tag peptide H-H-H-H-H-H conjugated to KLH using maleimide.
Clone:	33D10-D2-G8
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	This monoclonal anti-6X His tag antibody detects over-expressed proteins containing the 6X His epitope tag.
Purification:	6X HIS Epitope Tag CY3 conjugated antibody was purified from concentrated tissue culture supernate by Protein A chromatography is directed against the 6X His motif and is useful in determining its presence in various assays.
Labeling Ratio:	8.3

Target Details

Target:	His Tag
Abstract:	His Tag Products
Background:	Synonyms: mouse anti-6X His Tag CY3 conjugated Antibody, CY3 conjugated mouse anti-6X His Tag Antibody, anti-HIS, HIS Antibody, 6X His Tag Antibody, HHHHHH epitope tag antibody, CY3, Cyanine 3 Background: 6X His Tag CY3 conjugated Antibody as well as other Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. The anti-epitope tag antibody is usually functional in a variety of antibody-dependent experimental procedures. Expression vectors producing epitope tag fusion proteins are available for a variety of host expression systems including bacteria, yeast, insect and mammalian cells. Rockland Immunochemicals produces anti-epitope tag antibodies against many common epitope tags including Myc, GST, GFP, 6X His, MBP, FLAG and HA. Rockland Immunochemicals also produces antibodies to other tags including FITC, Rhodamine (TRITC), DNP and biotin.

Application Details

Application Notes:	FLISA_Dilution: 1:10,000 - 1:50,000 ELISA_Dilution: User Optimized Flow_Cytometry_Dilution: 1:500 - 1:2,500 IF_Microscopy_Dilution: 1:1,000 - 1:5,000 Western_Blot_Dilution: User Optimized
Comment:	Suggested Applications: ELISA, Microarray Anti-6X His is optimally suited for monitoring expression of His-tagged fusion proteins. As such, anti-6X His/6X His can be used to identify fusion proteins that contain the 6X His epitope. The antibody recognizes the His tag fused either to the amino- or carboxy- termini of targeted proteins. This antibody has been tested by dot blot, ELISA, and western blotting against both the immunizing peptide and His-containing recombinant proteins. CY3s are designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent

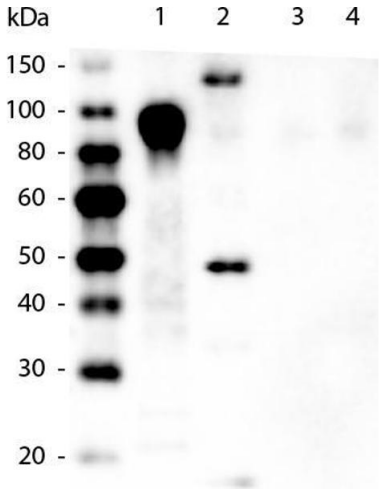
Application Details

	western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 50µL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free Preservative: 0.01 % (w/v) Sodium Azide
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 vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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

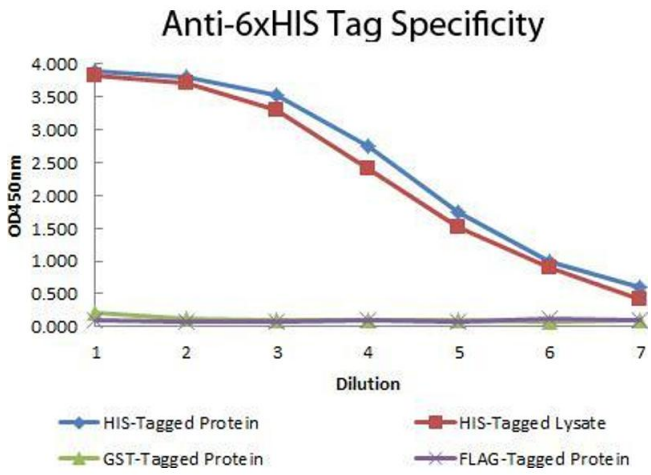
Images



Western Blotting

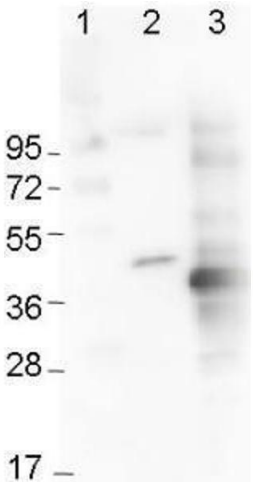
Image 1. Western Blot of Mouse anti-6xHIS Tag Antibody. Lane 1: 100ng Purified histidine-tagged recombinant protein. Lane 2: 200ng E. coli cell lysate containing histidine-tagged expression construct. Lane 3: 100ng Purified GST-tagged recombinant protein. Lane 4: 100ng Purified FLAG-tagged recombinant protein. Primary antibody: Mouse anti-6xHIS Tag antibody at 1:5,000 overnight at 4°C. Secondary antibody: Peroxidase mouse secondary antibody at 1:20,000

for 30 min at RT. Block: 5% BLOTTO for 1 hr at RT.



ELISA

Image 2. ELISA of Mouse anti-6xHIS Tag Antibody. Antigen: HIS-tagged purified protein and E. coli cell lysates expressing HIS-Tagged construct, GST- and RON-tagged purified proteins. Coating amount: 0.15ug per welll. Primary antibody: 6xHIS Tag antibody at 100ug/mL. Dilution series: 2-fold. Mid-point concentration: 200ng/mL. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000. Substrate: TMB .



Western Blotting

Image 3. Western Blot using Immunochemicals' Mouse Anti-6x-His Epitope Tag Monoclonal Antibody showing detection of the 6xHis sequence on N-terminally-tagged (lane 2) and C-terminally-tagged recombinant proteins (lane 3). In lane 1 are molecular weight markers.