



Datasheet for ABIN964552  
**anti-His Tag antibody**



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### Overview

Quantity:	100 µg
Target:	His Tag
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Immunohistochemistry (IHC), Flow Cytometry (FACS)

### Product Details

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. Immunogen Type: Peptide
Sequence:	HHHHHH
Clone:	33D10-D2-G8
Isotype:	IgG1 kappa
Specificity:	6X HIS Epitope Tag antibody is directed against the 6X His motif and is useful in determining its presence in various assays. This monoclonal anti-6X His tag antibody detects over-expressed proteins containing the 6X His epitope tag. To date, this antibody has reacted with all His tagged proteins so far tested. In western blotting of bacterial extracts, the antibody does not cross-react with endogenous proteins. The antibody recognizes the His-tag (His-His-His-His-His-His) fused to either the amino- or carboxy-termini of targeted proteins in transfected or transformed cells.

## Product Details

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**Characteristics:** 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.

**Purification:** Transferrin

## Target Details

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**Target:** His Tag

**Abstract:** [His Tag Products](#)

**Target Type:** Tag

**Background:** 6X His Tag 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. Supplier produces anti-epitope tag antibodies against many common epitope tags including Myc, GST, GFP, 6X His, MBP, FLAG and HA. Supplier also produces antibodies to other tags including FITC, Rhodamine (TRITC), DNP and biotin.

Synonyms: anti-HIS, HIS Antibody, 6X His Tag Antibody, HHHHHH epitope tag antibody

## Application Details

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**Application Notes:** 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 ELISA and western blotting against both the immunizing peptide and His-containing recombinant proteins. Although not tested, this antibody is likely functional for immunoprecipitation and immunocytochemistry.

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 3.0 mg/mL

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**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. Expiration date is one (1) year from date of opening.

**Expiry Date:** 12 months

## Publications

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**Product cited in:** Legros, Lacabanne, dAgay, Larsen, Pla, Soussi: "Production of human p53 specific monoclonal antibodies and their use in immunohistochemical studies of tumor cells." in: **Bulletin du cancer**, Vol. 80, Issue 2, pp. 102-10, (1994) ([PubMed](#)).

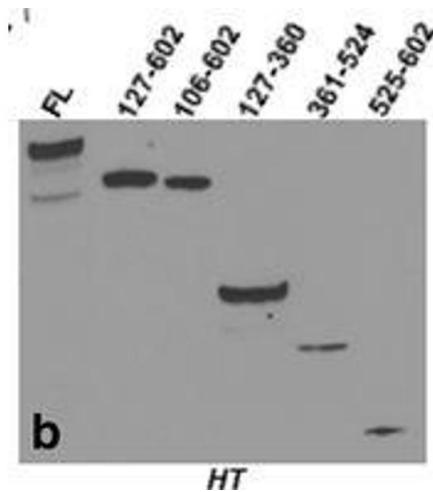
Vogelstein: "Cancer. A deadly inheritance." in: **Nature**, Vol. 348, Issue 6303, pp. 681-2, (1991) ([PubMed](#)).

Diller, Kassel, Nelson, Gryka, Litwak, Gebhardt, Bressac, Ozturk, Baker, Vogelstein: "p53 functions as a cell cycle control protein in osteosarcomas." in: **Molecular and cellular biology**,

Vol. 10, Issue 11, pp. 5772-81, (1990) ([PubMed](#)).

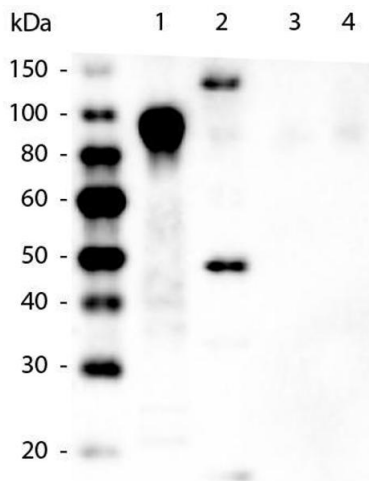
Yewdell, Gannon, Lane: "Monoclonal antibody analysis of p53 expression in normal and transformed cells." in: **Journal of virology**, Vol. 59, Issue 2, pp. 444-52, (1986) ([PubMed](#)).

Images



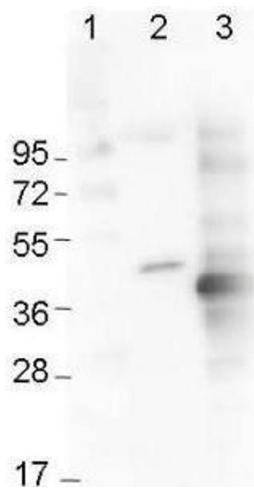
Western Blotting

**Image 1.** Characterization of purity and antigenicity of CKAP4 constructs. a SDS-PAGE of normalized amounts of purified CKAP4 constructs followed by silver staining. b-f Western blots using anti-His tag, anti-CKAP4 (G1/296), anti-CKAP4 (epitope region: 216-265), anti-CKAP4 (epitope region: 375-425), and anti-CKAP4 (epitope region: 552-602) primary antibody, respectively. Separate blots were used for each antibody. Molecular weight standards are indicated on left and right - figure provided by CiteAb. Source: PMID28893174



Western Blotting

**Image 2.** 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.



### 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.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN964552.