

Product datasheet

Anti-Detyrosinated alpha Tubulin antibody - Microtubule Marker ab48389

★★★★★ [11 Abreviews](#) [77 References](#) [1 Image](#)

Overview

Product name	Anti-Detyrosinated alpha Tubulin antibody - Microtubule Marker
Description	Rabbit polyclonal to Detyrosinated alpha Tubulin - Microtubule Marker
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	A 10 residue synthetic peptide of the C terminal domain of human alpha Tubulin.
General notes	<p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result, we are pleased to offer this antibody in a purified format as of 10/11/2017. The following lots are still unpurified and still in stock as of 10/11/2017- GR315444-5, GR315444-3 GR285350-3, GR3181389-3, GR3181389-4, GR3181389-5, GR3181389-6, GR3181389-7. Lot numbers other than GR315444-5, GR315444-3 GR285350-3, GR3181389-3, GR3181389-4, GR3181389-5, GR3181389-6, GR3181389-7 will be purified. Please note that the dilutions may need to be adjusted accordingly. Purified antibodies have the advantage of being enriched for the fraction of immunoglobulin that specifically reacts with the target antigen and for having a reduction of serum proteins.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituents: 1.21% Tris, 0.75% Glycine, 2% Sucrose
Purity	Protein A purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab48389 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (6)	1/500 - 1/2000. Detects a band of approximately 51 kDa (predicted molecular weight: 50 kDa).

Target

Relevance Microtubules are required for many well characterized functions in eukaryotic cells, including the movement of chromosomes in mitosis and meiosis, intracellular transport, establishment and maintenance of cellular morphology, cell growth, cell migration and morphogenesis in multicellular organisms. The building block of a microtubule is the tubulin subunit, a heterodimer of alpha and beta tubulin. Both of these monomers are found in all eukaryotes, and their sequences are highly conserved. The tubulin protein is a major target of drug molecules, and consequently, tubulin inhibitors have attracted great attention as antimitotic antitumor agents for chemotherapeutic use. This antibody recognizes detyrosinated alpha tubulin, a post translational modification of alpha tubulin.

Cellular localization Cytoplasmic

Images



Western blot - Anti-Detyrosinated alpha Tubulin antibody - Microtubule Marker (ab48389)

All lanes : Anti-Detyrosinated alpha Tubulin antibody - Microtubule Marker (ab48389) at 1/500 dilution

Lane 1 : Saos 2 (Human epithelial-like osteosarcoma cell line)

Whole Cell Lysate

Lane 2 : U2OS (Human osteosarcoma cell line) Whole Cell Lysate

Lane 3 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 4 : Human Brain Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

Lanes 1-3 : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Lane 4 : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed

(HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 50 kDa

Observed band size: 51 kDa

Additional bands at: 28 kDa, 44 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

Detyrosinated alpha Tubulin contains a number of potential phosphorylation sites (SwissProt) which may explain the migration pattern observed.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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