

Datasheet: OBT1660

Description:	RABBIT ANTI HUMAN TUBULIN (DETYROSINATED)
Specificity:	TUBULIN (DETYROSINATED)
Other names:	GLU-TUBULIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/200 - 1/500
Immunohistology - Paraffin	▪			1/200 - 1/500
Western Blotting	▪			1/500 - 1/1,000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mammals, Plants Does not react with: Yeast N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present.
Approx. Protein Concentrations	1.0 mg/ml
Immunogen	Synthetic peptide corresponding to the C-terminal portion of de-tyrosinated tubulin.
Specificity	Rabbit anti Human Tubulin (Detyrosinated) antibody recognizes the de-tyrosinated form of the tubulin alpha chain, also known as Glu tubulin.

De-tyrosination of alpha tubulin is associated with, but does not in itself confer stability of microtubules ([Khawaja et al. 1988](#)). Following de-tyrosination, a reversible process, alpha tubulin may be irreversibly further modified with the removal of the penultimate glutamate residue to form Δ2-tubulin which may further promote the stability of microtubules such as those found in neurons which demonstrate high levels of Δ2-tubulin expression ([Paturle-Lafanechère, L. et al. 1994](#))

References	<ol style="list-style-type: none">1. Mialhe, A. <i>et al.</i> (2001) Tubulin detyrosination is a frequent occurrence in breast cancers of poor prognosis. Cancer Res. 61(13): 5024-7.2. Sahab, Z.J. <i>et al.</i> (2011) Tumor Suppressor RARRES1 Interacts with Cytoplasmic Carboxypeptidase AGL2 to Regulate the {alpha}-Tubulin Tyrosination Cycle. Cancer Res. 2011 Feb 71:1219-28.3. Lytvyn, D. <i>et al.</i> (2017) α-tubulin acetylation and detyrosination correlate with starvation-induced autophagy in tobacco cells bioRxiv Feb 24 [Epub ahead of print]4. Coyle, K.M. <i>et al.</i> (2016) Breast cancer subtype dictates DNA methylation and ALDH1A3-mediated expression of tumor suppressor RARRES1. Oncotarget. 7 (28): 44096-44112.
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10162 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)
[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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