

## Datasheet: VPA00659KT

<b>Description:</b>	TUBULIN ALPHA 3C/D CHAIN ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	TUBULIN ALPHA 3C/D CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	2 Westerns

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	20µl Rabbit polyclonal antibody purified by affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 2% Sucrose
<b>Immunogen</b>	Synthetic peptide encompassing part of the N terminal region of human tubulin alpha 3C/D chain
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13748</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">113457</a> TUBA3D    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	TUBA2

**Specificity** **Rabbit anti Human tubulin alpha 3C/D chain antibody** recognizes the tubulin alpha 3C/D chain, also known as alpha-tubulin 2, tubulin alpha-2 chain or tubulin alpha 2.

Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulin. The genes encoding these microtubule constituents are part of the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes and they are highly conserved among and between species. TUBA3C is an alpha tubulin gene that encodes a protein 99% identical to the mouse testis-specific Tuba3 and Tuba7 gene products. TUBA3C gene is located in the 13q11 region, which is associated with the genetic diseases Clouston hidrotic ectodermal dysplasia and Kabuki syndrome (provided by RefSeq, Jul 2008).

Rabbit anti Human tubulin alpha 3C/D chain antibody detects a band of 50 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting** Rabbit anti tubulin alpha 3C/D chain detects a band of approximately 50 kDa in Jurkat cell lysates

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**Instructions For Use** Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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**Lysate Composition** 400µg Jurkat lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution** - If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.  
- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.  
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

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**Storage** Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

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**Shelf Life** As supplied, 12 months from date of despatch

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**Acknowledgements** PrecisionAb™ is a trademark of Bio-Rad Laboratories

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**Health And Safety Information** Material Safety Datasheet documentation #10045 #10561 available at:  
Antibody (10045): <https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

'M302730:170201'

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