

Datasheet: VPA00030KT

Description:	TDP-43 ANTIBODY WITH CONTROL LYSATE
Specificity:	TDP-43
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

20µl Goat polyclonal antibody purified by ammonium sulfate precipitation followed by antigen affinity chromatography

Buffer Solution

TRIS buffered saline

Preservative Stabilisers

0.02% Sodium Azide (NaN₃)
0.5% Bovine Serum Albumin

Immunogen Peptide sequence C-HISNAEPKHNSNRQ from an internal region of TDP-43

External Database

Links

UniProt:

[Q13148](#)

[Related reagents](#)

Entrez Gene:

[23435](#)

TARDBP

[Related reagents](#)

Synonyms

TDP43

Specificity

Goat anti Human TDP-43 antibody recognizes human TAR DNA-binding protein 43, also known as TDP-43, the product of the TAR DNA-binding protein 43 gene. TDP-43 is a 414 amino acid DNA and RNA binding protein containing 2 [RRM](#) domains involved in regulation of transcription and splicing. TDP-43 is ubiquitously expressed with high levels being seen in pancreas, gall bladder, alimentary tract, reproductive system, adipose tissue, skin and skeletal muscle.

Mutations in the TPD43 gene are implicated in development of Amyotrophic lateral sclerosis 10, a neurodegenerative disorder affecting motor neurons leading to eventual fatal paralysis ([Van Deerlin et al. 2008](#)).

Goat anti Human TDP-43 antibody recognizes human TDP-43 as a single band of ~45kDa in multiple cell line lysates by western blotting under reducing conditions. The antibody also cross-reacts with rodent cell line lysates tested.

Western Blotting

Anti TDP-43 antibody detects a band of approximately 45 kDa in NIH/3T3 cell lysates.

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.

Lysate Composition

400µg NIH/3T3 lysate lyophilized in RIPA buffer.

Lysate Reconstitution

- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.

- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, 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.

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.

Guarantee

As supplied, 12 months from date of despatch.

Acknowledgements

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

**Health And Safety
Information**

Material Safety Datasheet documentation #10058 #10561 available at:
Antibody (10058): <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

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From March 15, 2021, we will no longer supply printed datasheets with our products.
Look out for updates on how to access your digital version at [bio-rad-antibodies.com](https://www.bio-rad-antibodies.com)

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