

Datasheet: VPA00107KT

Description:	ATF6 ANTIBODY WITH CONTROL LYSATE
Specificity:	ATF6
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
Product Form	Purified IgG - liquid
Preparation	20µl Goat polyclonal antibody purified by affinity chromatography
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5 % BSA
Immunogen	Peptide with the sequence C-NSYRYDHSVNDK, from the internal region of the protein sequence
External Database Links	UniProt: P18850 Related reagents

Entrez Gene:

[22926](#) ATF6 [Related reagents](#)

Specificity **Goat anti Human ATF6 antibody** recognizes activating transcription factor 6 alpha, also known as cAMP-dependent transcription factor ATF-6 alpha.

Encoded by the ATF6 gene, this protein is a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, ATF6 is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. ATF6 has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in ATF6 with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. ATF6 is also thought to be a potential therapeutic target for cystic fibrosis (provided by RefSeq, Aug 2011).

Goat anti Human ATF6 antibody detects a band of 84 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Anti ATF6 detects a band of approximately 84 kDa in HeLa 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 HeLa 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>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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Printed on 09 Feb 2021