

## Datasheet: VPA00060KT

<b>Description:</b>	APEX1 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	APEX1
<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>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	20µl Goat polyclonal antibody purified by affinity chromatography
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> ) 0.5% Bovine Serum Albumin
<b>Immunogen</b>	Peptide with sequence PKRGKKGAVAEDGD-C from the N terminus of the protein sequence.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P27695</a> <a href="#">Related reagents</a>

**Entrez Gene:**

[328](#) APEX1 [Related reagents](#)

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<b>Synonyms</b>	APE, APE1, APEX, APX, HAP1, REF1
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<b>Specificity</b>	<p><b>Goat anti Human APEX1 antibody</b> recognizes apurinic/apyrimidinic endonuclease 1 (APE1), also known as redox effector factor-1 (Ref-1). APEX1 is a 35 kDa multifunctional protein that is ubiquitously expressed at high basal levels.</p> <p>APEX1 acts on apurinic/apyrimidinic (AP) sites in DNA as a major member of the base excision repair (BER) pathway and is involved in oxidative DNA damage repair. It is responsible for the maintenance of the cellular proliferative rate, and acts by modulating DNA binding activity of several transcription factors including NFkB, Egr-1, p53, AP-1, CREB, HIF-alpha and members of the Pax family. APEX1 has been shown to regulate hsp90 expression in thyroid cancer cells, in a novel tumorigenic pathway. APEX1 is also required in normal embryonic hematopoiesis.</p> <p>Goat anti Human APEX1 antibody detects APEX1 as a single band of 35 kDa in a wide range of human cell line lysates tested.</p>
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<b>Western Blotting</b>	Goat anti APEX1 detects a band of approximately 35 kDa in Jurkat cell lysates.
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<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
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<b>Lysate Composition</b>	400µg Jurkat lysate lyophilized in RIPA buffer.
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<b>Lysate Reconstitution</b>	<p>- 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.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>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.</p>
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<b>Storage</b>	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>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.</p>
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<b>Guarantee</b>	As supplied, 12 months from date of despatch.
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<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
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<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10058 #10561 available at: Antibody (10058): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a></p>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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'M351849:190318'

**Printed on 09 Feb 2021**

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