

## Datasheet: AHP1006

<b>Description:</b>	RABBIT ANTI AES (C-TERMINAL)
<b>Specificity:</b>	AES (C-TERMINAL)
<b>Other names:</b>	AMINO-TERMINAL ENHANCER OF SPLIT, GRG
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1ug/ml

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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to Human AES (CT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	A 16 amino acid peptide located near human AES carboxy-terminus.

**External Database  
Links**

**UniProt:**

[Q08117](#) [Related reagents](#)

**Entrez Gene:**

[166](#) AES [Related reagents](#)

---

**Synonyms**

GRG

---

**Specificity**

**Rabbit anti Human AES1 (C-terminal) antibody** recognizes an epitope within the C-Terminal region (CT) of the 197-amino acid protein AES (amino-Terminal enhancer of split), a member of the Groucho/transducin-like enhancer of split (TLE) family of transcriptional regulators, homologous to the amino-Terminal domain of *Drosophila* Groucho protein.

The detachment of integrin from the extracellular matrix (ECM), results in loss of cell adhesion and cell death, termed anoikis. This type of apoptosis is controlled by integrin-mediated signaling pathways and that the mitochondrial protein Bit1 (Bcl-2 inhibitor of transcription), released into the cytoplasm during apoptosis, forms a complex with AES, to induce cell death. The effects of the interaction between Bit1 and AES can be counteracted by the attachment of cells to fibronectin through integrin  $\alpha 5\beta 1$ .

---

**Western Blotting**

AHP1006 detects a band of approximately 22kDa in human 293 cell lysates

---

**Further Reading**

1. Miyasaka, H. *et al.* (1993) Molecular cloning and expression of mouse and human cDNA encoding AES and ESG proteins with strong similarity to *Drosophila* enhancer of split groucho protein. [Eur. J. Biochem. 216: 343-352.](#)
2. Jan, Y. *et al.* (2004) A mitochondrial protein, Bit1, mediates apoptosis regulated by integrins and Groucho/TLE corepressors. [Cell. 116: 751-762.](#)
3. Tetsuka, T. *et al.* (2000) Inhibition of nuclear factor-kappaB-mediated transcription by association with the amino-terminal enhancer of split, a Groucho-related protein lacking WD40 repeats\*. [J. Biol. Chem. 275: 4383-4390.](#)

---

**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**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)

'M313602:180328'

**Printed on 01 May 2018**

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)