

Product datasheet for **TA306253**

Amino terminal enhancer of split (AES) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 - 4 ug/mL, ICC: 10 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	AES antibody was raised against a 16 amino acid peptide from near the carboxy terminus of human AES.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	amino-terminal enhancer of split
Database Link:	NP_945320 Entrez Gene 166 Human Q08117



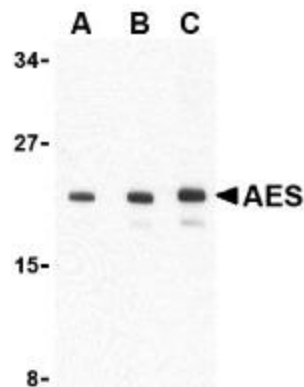
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Background:

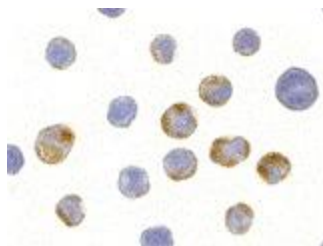
Adhesion to extracellular matrix regulates cell survival through both integrin engagement and appropriate cell spreading. Anoikis is the molecular mechanism of apoptosis induced by integrin detachment (1). Amino-terminal enhancer of split (AES) is a member of the Groucho/transducin-like enhancer of split (TLE) family of transcriptional regulators, a group of transcriptional co-repressors that play important roles in neurogenesis, segmentation, and sex determination (2,3). AES forms a complex with Bit1 (Bcl-2 inhibitor of transcription 1), a mitochondrial protein that is released into the cytoplasm upon onset of apoptosis (4). It has been suggested that this complex turns off a survival-promoting gene transcription program controlled by the TLE protein family. (4). Interestingly, apoptosis of cells transfected with AES and Bit1 could be inhibited if the cells were allowed to attach to fibronectin through the alpha5beta1 integrin suggesting that the Bit1-AES pathway contributing to anoikis is regulated by integrins, and in particular, the alpha5beta1 integrin (4).

Synonyms:

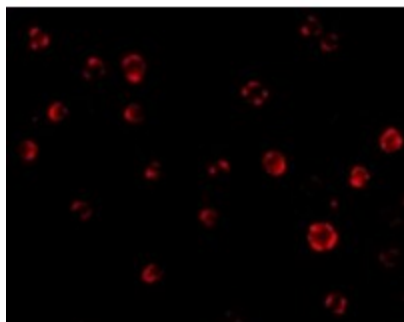
AES-1; AES-2; ESP1; GRG; Grg-5; GRG5; TLE5

Product images:

Western blot analysis of AES in 293 cell lysate with AES antibody at (A) 1, (B) 2 and (C) 4 ug/mL.



Immunocytochemistry of AES in HeLa cells with AES antibody at 10 ug/mL.



Immunofluorescence of AES in Hela cells with AES antibody at 20 ug/mL.