

Rabbit anti-Human ERAS Polyclonal Antibody | anti-ERAS antibody

ERAS Antibody (N-term) (A28)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290667	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

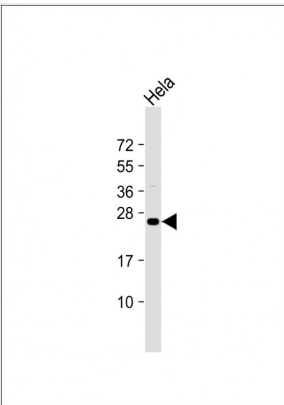
ERAS; Polyclonal Antibody; ERAS Antibody (N-term) (A28); GTPase ERas; E-Ras; Embryonic stem cell-expressed Ras; HRAS2; HRASP; anti-ERAS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Ig
Specificity	This ERAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20–50 amino acids from the N-terminal region of human ERAS.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Length	233
Applicable Applications for anti-ERAS antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Subtitle	Purified Rabbit Polyclonal Antibody (Pab)
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side.
Antigen Region	20-50 aa
Antigen Type	Synthetic Peptide
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with ERAS antibody (N-term) (A28), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Anti-ERAS Antibody (N-term) (A28) at 1:1000 dilution + Hela whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 25 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-ERAS antibody	Description: Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Point mutations of several amino acids of human RAS, including gly12, ala59, or glu63, render the protein constitutively active. Embryonic stem cell-expressed Ras (ERAS) has serine, alanine, and asparagine at the positions corresponding to gly12, ala59, and glu63 of human RAS, suggesting that it is constitutively active. The PI3K (phosphoinositide 3-kinase) pathway is important for proliferation, survival and maintenance of pluripotency in ES cells. The PI3K pathway is activated by growth factors and cytokines including insulin and leukaemia inhibitory factor. In addition to these exogenous factors, the PI3K pathway is endogenously activated by the constitutively active Ras family protein ERas (ES cell-expressed Ras). ERas null ES cells maintained pluripotency but show significantly reduced growth and tumorigenicity, which can be rescued by expression of ERas cDNA or by activated phosphatidylinositol 3-hydroxykinase. The transforming oncogene ERAS appears to be important in the tumor-like growth properties of ES cells. Background: Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Plays an important role in the tumor-like growth properties of embryonic stem cells (By similarity).
Product Categories/Family for anti-ERAS antibody	Primary Antibodies; Cancer; Developmental Biology; Signal Transduction
References	Kameda,T., Stem Cells 23 (10), 1535-1540 (2005). Takahashi,K., Nature 423 (6939), 541-545 (2003). Miyoshi,J., Nucleic Acids Res. 12 (4), 1821-1828 (1984).

NCBI AND UNIPROT INFORMATION

NCBI GI #	31559833
NCBI GeneID	3266
NCBI Accession #	NP_853510.1
NCBI GenBank Nucleotide #	NM_181532.3
UniProt Accession #	Q7Z444
Molecular Weight	25287 Da
NCBI Official Full Name	GTPase ERas
NCBI Official Synonym Full Names	ES cell expressed Ras
NCBI Official Symbol	ERAS

NCBI Official Synonym Symbols	HRAS2; HRASP
NCBI Protein Information	GTPase ERas
UniProt Protein Name	GTPase ERas
UniProt Gene Name	ERAS
UniProt Synonym Gene Names	HRAS2; HRASP; E-Ras
UniProt Entry Name	RASE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/eras-antibody-immunohistochemistry-western-blot-elisa/290667>