

ERAS Antibody (N-term) (A28)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1470e

Specification

ERAS Antibody (N-term) (A28) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q7Z444
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	25287
Antigen Region	20-50

ERAS Antibody (N-term) (A28) - Additional Information

Gene ID 3266

Other Names

GTPase ERas, E-Ras, Embryonic stem cell-expressed Ras, ERAS, HRAS2, HRASP

Target/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.

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

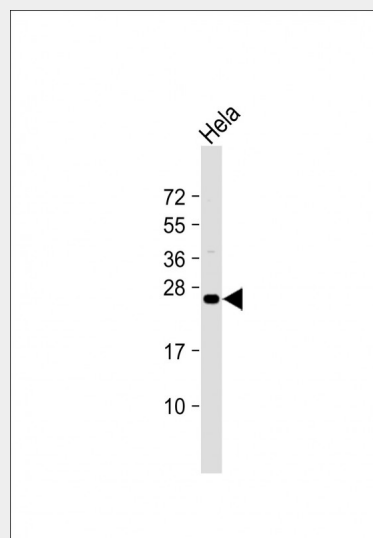
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ERAS Antibody (N-term) (A28) is for



Anti-ERAS Antibody (N-term) (A28) at 1:1000 dilution + Hela whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 25 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



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.

research use only and not for use in diagnostic or therapeutic procedures.

ERAS Antibody (N-term) (A28) - Protein Information

Name ERAS

Synonyms HRAS2, HRASP

Function

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).

Cellular Location

Cell membrane; Lipid-anchor; Cytoplasmic side

ERAS Antibody (N-term) (A28) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ERAS Antibody (N-term) (A28) - Background

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.

ERAS Antibody (N-term) (A28) - 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)