

Datasheet for ABIN356980  
**anti-ERAS antibody (N-Term)**

## 3 Images

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## Overview

Quantity:	0.4 mL
Target:	ERAS
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERAS antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human ERAS.
Isotype:	Ig Fraction
Specificity:	This antibody detects ERAS at N-term.
Purification:	Protein A column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

## Target Details

Target:	ERAS
Alternative Name:	ERAS / HRAS2 ( <a href="#">ERAS Products</a> )

## Target Details

**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. Synonyms: E-Ras, Embryonic stem cell-expressed Ras, GTPase ERas, HRASP

**Molecular Weight:** 25156 Da

**Gene ID:** 3266, 9606

**UniProt:** [Q7Z444](#)

## Application Details

**Application Notes:** ELISA 1: 1,000. Western blot 1: 50 - 1: 100. Immunofluorescence 1: 10 - 1: 50.  
Immunohistochemistry 1: 50.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Concentration:** 0.25 mg/mL

**Buffer:** PBS with 0.09 % (W/V) sodium azide

**Preservative:** Sodium azide

**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Handling Advice:** Avoid repeated freezing and thawing.

Handling

Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer.

Images

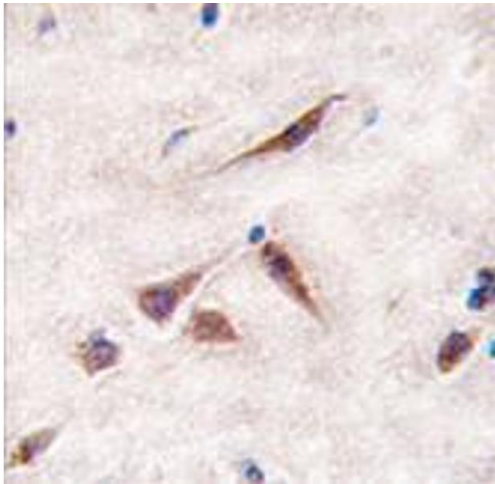


Image 1.

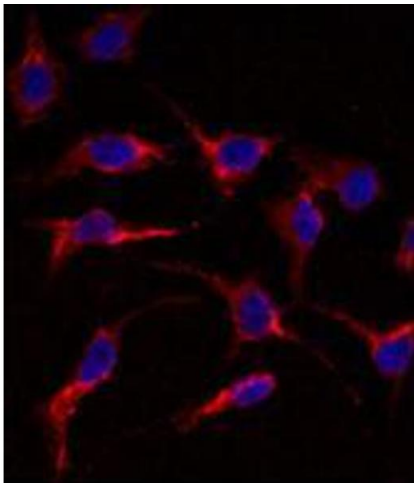


Image 2.



Image 3.