

Product datasheet

Anti-eIF5A2 antibody ab227537

3 Images

Overview

<b>Product name</b>	Anti-eIF5A2 antibody
<b>Description</b>	Rabbit polyclonal to eIF5A2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Chicken, Cow, Rhesus monkey 
<b>Immunogen</b>	Recombinant fragment within Human eIF5A2 (internal sequence). The exact sequence is proprietary. Database link: <a href="#">Q9GZV4</a>
<b>Positive control</b>	WB: HEK-293T, A431 and HeLa whole cell lysates. IHC-P: Human gastric cancer tissue. ICC/IF: HeLa cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: PBS, 1% BSA, 20% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab227537** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 17 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

## Target

### Function

mRNA-binding protein involved in translation elongation. Has an important function at the level of mRNA turnover, probably acting downstream of decapping. Involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity. Functions as a regulator of apoptosis. Mediates effects of polyamines on neuronal process extension and survival. May play an important role in brain development and function, and in skeletal muscle stem cell differentiation.

### Tissue specificity

Expressed in ovarian and colorectal cancer cell lines (at protein level). Highly expressed in testis. Overexpressed in some cancer cells.

### Sequence similarities

Belongs to the eIF-5A family.

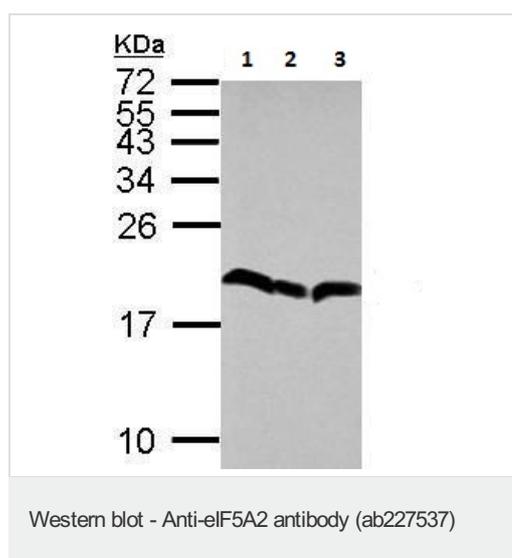
### Post-translational modifications

eIF-5A seems to be the only eukaryotic protein to have an hypusine residue which is a post-translational modification of a lysine by the addition of a butylamino group (from spermidine).

### Cellular localization

Cytoplasm. Nucleus. Endoplasmic reticulum membrane. Nucleus > nuclear pore complex. Hypusine modification promotes the nuclear export and cytoplasmic localization and there was a dynamic shift in the localization from predominantly cytoplasmic to primarily nuclear under apoptotic inducing conditions.

## Images



**All lanes :** Anti-eIF5A2 antibody (ab227537) at 1/1000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

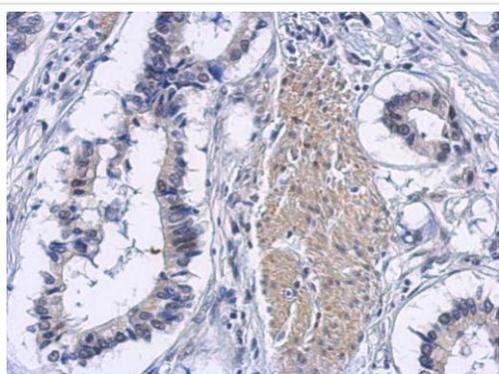
**Lane 2 :** A431 (human epidermoid carcinoma cell line) whole cell lysate

**Lane 3 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 30 µg per lane.

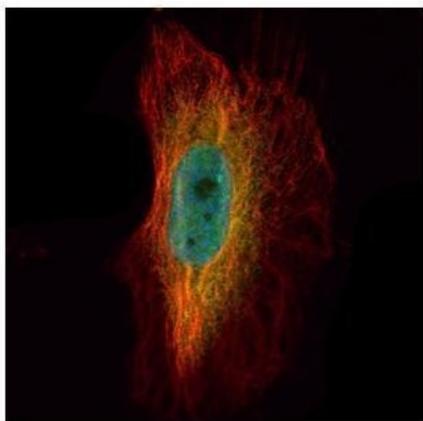
**Predicted band size:** 17 kDa

15% SDS-PAGE gel.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF5A2 antibody (ab227537)

Paraffin-embedded human gastric cancer tissue stained for eIF5A2 with ab227537 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-eIF5A2 antibody (ab227537)

Paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for eIF5A2 (green) using ab227537 at 1/500 dilution in ICC/IF.

Alpha-tubulin filaments are labelled with an anti-alpha-Tubulin antibody (red).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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