

**EIF5A Antibody (internal region, near N-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3005a****Specification**

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**EIF5A Antibody (internal region, near N-Term) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P63241</a>
Other Accession	<a href="#">NP_001137232.1</a> , <a href="#">1984</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	16832

**EIF5A Antibody (internal region, near N-Term) - Additional Information****Gene ID** 1984**Other Names**

Eukaryotic translation initiation factor 5A-1, eIF-5A-1, eIF-5A1, Eukaryotic initiation factor 5A isoform 1, eIF-5A, Rev-binding factor, eIF-4D, EIF5A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

EIF5A Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**EIF5A Antibody (internal region, near N-Term) - Protein Information****Name** EIF5A ([HGNC:3300](#))**Function**

Translation factor that promotes translation elongation and termination, particularly upon ribosome stalling at specific amino acid sequence contexts (PubMed:<a href="http://www.uniprot.org/citations/33547280" target="\_blank">33547280</a>). Binds between the exit (E) and peptidyl (P) site of the ribosome and promotes rescue of stalled ribosome: specifically required for efficient translation of polyproline-containing peptides as well as other motifs that stall the ribosome (By similarity). Acts as a ribosome quality control (RQC) cofactor by joining the RQC complex to facilitate peptidyl transfer during CAT tailing step (By

similarity). Also 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 (PubMed:<a href="http://www.uniprot.org/citations/16987817" target="\_blank">16987817</a>). With syntenin SDCBP, functions as a regulator of p53/TP53 and p53/TP53-dependent apoptosis (PubMed:<a href="http://www.uniprot.org/citations/15371445" target="\_blank">15371445</a>). Regulates also TNF-alpha-mediated apoptosis (PubMed:<a href="http://www.uniprot.org/citations/15452064" target="\_blank">15452064</a>, PubMed:<a href="http://www.uniprot.org/citations/17187778" target="\_blank">17187778</a>). Mediates effects of polyamines on neuronal process extension and survival (PubMed:<a href="http://www.uniprot.org/citations/17360499" target="\_blank">17360499</a>). Is required for autophagy by assisting the ribosome in translating the ATG3 protein at a specific amino acid sequence, the 'ASP-ASP-Gly' motif, leading to the increase of the efficiency of ATG3 translation and facilitation of LC3B lipidation and autophagosome formation (PubMed:<a href="http://www.uniprot.org/citations/29712776" target="\_blank">29712776</a>).

#### **Cellular Location**

Cytoplasm. Nucleus. Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Note=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 (PubMed:19379712, PubMed:27306458). Nuclear export of hypusinated protein is mediated by XPO4 (PubMed:10944119, PubMed:27306458).

#### **Tissue Location**

Expressed in umbilical vein endothelial cells and several cancer cell lines (at protein level)

#### **eIF5A Antibody (internal region, near N-Term) - Protocols**

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

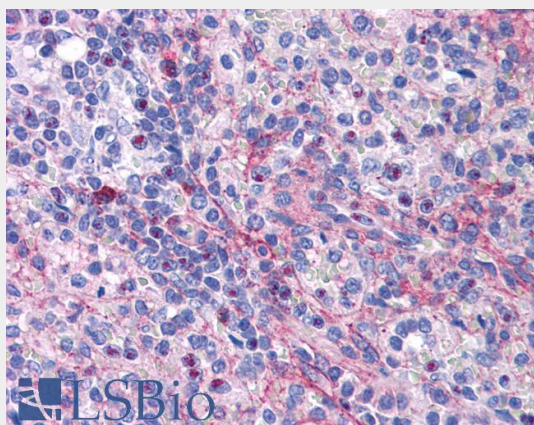
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **eIF5A Antibody (internal region, near N-Term) - Images**

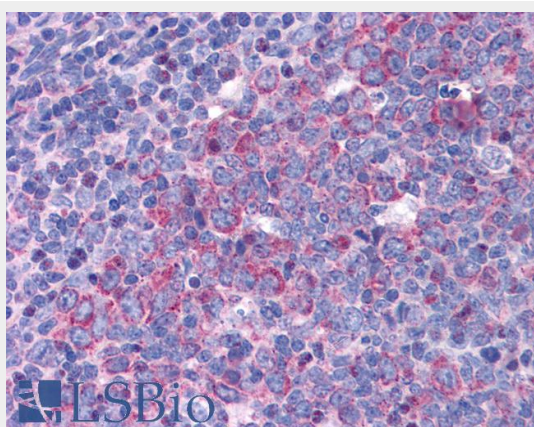




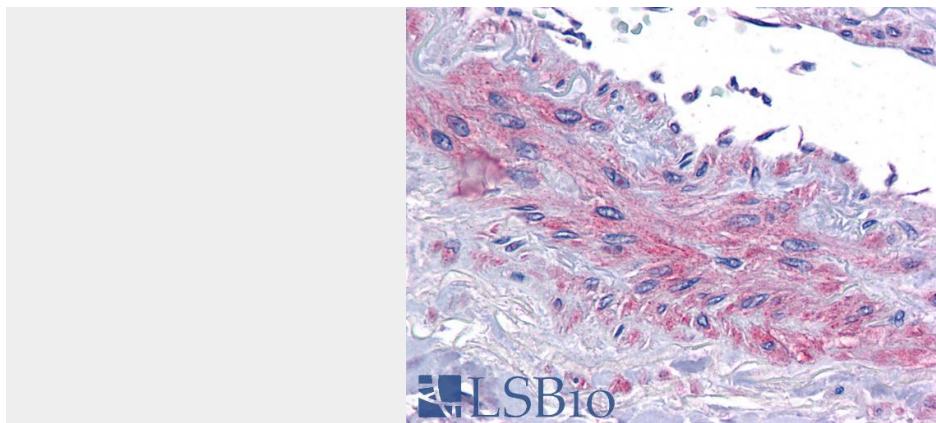
EB09590 (0.1 $\mu$ g/ml) staining of MOLT4 lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB09590 (3.75 $\mu$ g/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09590 (3.75 $\mu$ g/ml) staining of paraffin embedded Human Tonsil. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09590 (3.75µg/ml) staining of paraffin embedded Human Vessel. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **eIF5A Antibody (internal region, near N-Term) - Background**

Reported variants NP\_001137233.1, NP\_001961.1 and NP\_001137234.1 represent identical protein:

#### **eIF5A Antibody (internal region, near N-Term) - References**

The genomic structure encoding human initiation factor eIF-5A Koettwitz K, Kappel B, Baumruker T, Hauber J, Bevec D Gene. 1994 Jul 144 (2): 249-52 PMID: 7545941