**Product Datasheet**

# eIF2a(Ab-51) Antibody

Catalog No: #21271

Package Size: #21271-1 50ul #21271-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

## Description

| | |
|---|---|
| Product Name | eIF2a(Ab-51) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Applications | WB IHC |
| Species Reactivity | Hu Ms Rt |
| Specificity | The antibody detects endogenous level of total eIF2a protein. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around aa.49~53 (E-L-S-R-R) derived from Human eIF2a. |
| Target Name | eIF2a |
| Other Names | Eukaryotic translation initiation factor 2 subunit alpha; EIF-2A; |
| Accession No. | Swiss-Prot: P05198NCBI Protein: NP_004085.1 |
| Uniprot | P05198 |
| GeneID | 1965; |
| Concentration | 0.6mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use. |

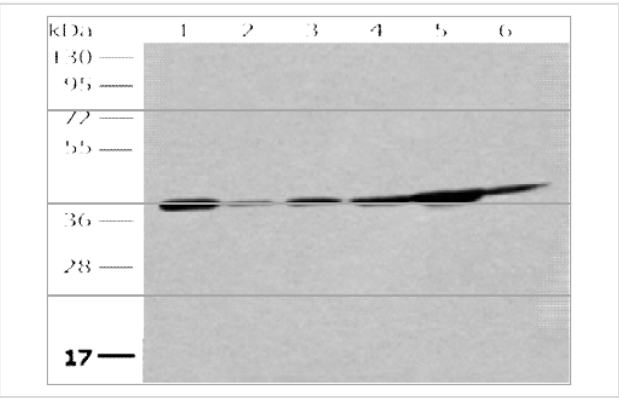
## Application Details

Predicted MW: 38kd

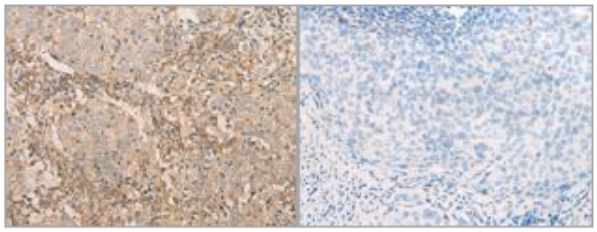
Western blotting: 1:200~1:1000

Immunohistochemistry: 1:30~1:150

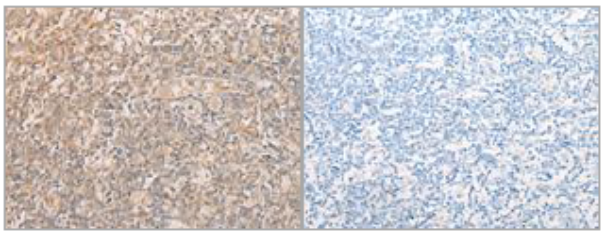
## Images




Gel: 8%SDS-PAGE Lysate: 40 ΞOg Lane 1-6: A549 cell,Human placenta tissue,A172 cell,NIH/3T3 cell,Jurkat cell,Hela cell lysates Primary antibody: 21271(eIF2a Antibody) at dilution 1/250 Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution Exposure time: 3 minutes



The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using 21271(eIF2a(Ab-51) Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: Γ 200)



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using 21271(EIF2S1 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: Γ 200)

## Background

Functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.

Xavier Saelens, et,al. (2001) J. Biol. Chem; 276: 41620 - 41628.

Hong-Li Wu, Yu-Hua Li, Yan-Hua Lin, et al. (2008) Salvianolic acid B protects human endothelial cells from oxidative stress damage: a possible protective role of glucose-regulated protein 78 induction Cardiovasc Res doi:10.1093/cvr/cvn262

This article references the use of the #21271.

Note: This product is for in vitro research use only