

# Product Datasheet

## eIF2A [p Ser51] Antibody (SZ01-06) NBP2-67353

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-67353**

eIF2A [p Ser51] Antibody (SZ01-06)

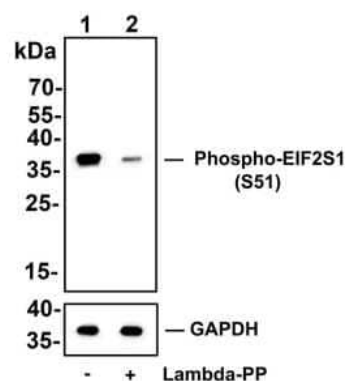
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SZ01-06
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit eIF2A [p Ser51] Antibody (SZ01-06) (NBP2-67353) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF, Simple Western and IP. Anti-eIF2A Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	83939
Gene Symbol	EIF2A
Species	Human, Mouse, Rat
Immunogen	Synthetic phospho-peptide corresponding to residues surrounding Ser51 of Human eIF2A. (SwissProt: P05198 Human; SwissProt: Q6ZWX6 Mouse; SwissProt: P68101 Rat)

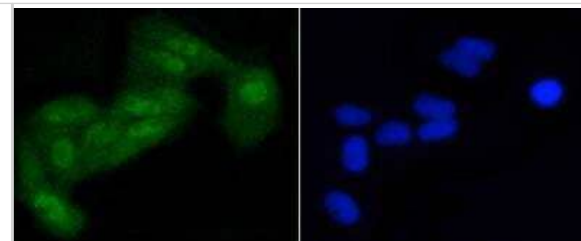
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:50, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:50-1:500

**Images**

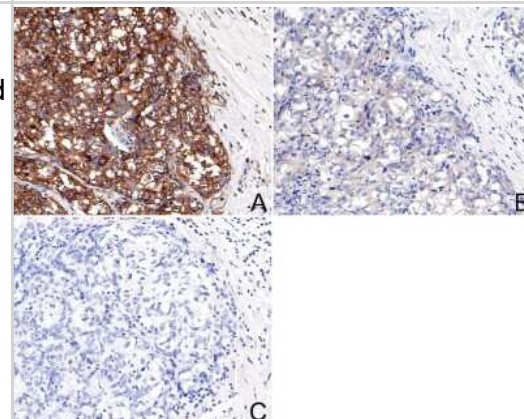
Western Blot: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Analysis of eIF2A [p Ser51] on THP-1 cell lysates. Lane 1: THP-1 cells, whole cell lysate, 10ug/lane Lane 2: THP-1 cells treated with 2.8ug/ul lambda-PP for 30 minutes, whole cell lysates, 10ug/lane All lanes : Anti-eIF2A [p Ser51]antibody at 1/500 dilution. Anti-GAPDH antibody at 1/10,000 dilution. Goat Anti-Rabbit IgG H&L (HRP) at 1/200,000 dilution. Predicted band size: 36 kDa Observed band size: 36 kDa Blocking and diluting buffer: 5% BSA. Exposure time: 3 minutes 43 seconds



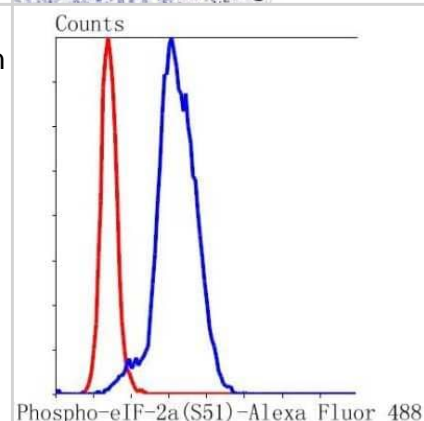
**Immunocytochemistry/Immunofluorescence: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353]** - Staining of Hela cells (green) using NBP2-67353. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



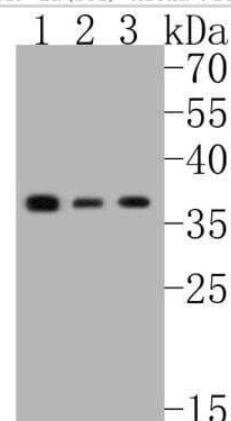
**Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353]** - Analysis of paraffin-embedded human breast carcinoma tissue with Rabbit anti-eIF2A [p Ser51] antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



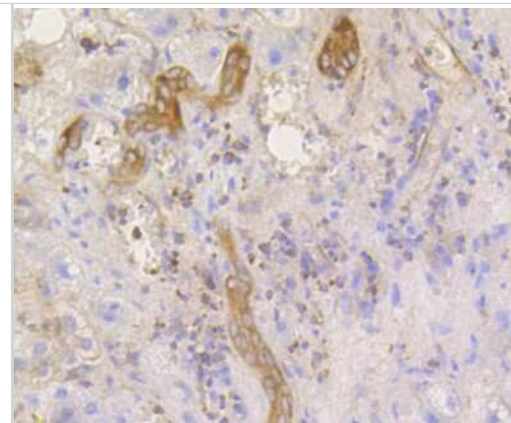
**Flow Cytometry: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353]** - Analysis of Hela cells with Phospho-eIF-2a(S51) antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



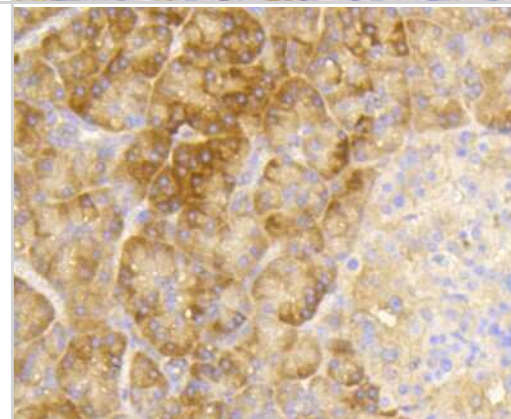
**Western Blot: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353]** - Analysis of Phospho-eIF-2a(S51) on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: HUVEC cell lysate Lane 2: HeLa cell lysate Lane 3: PC-3M cell lysate



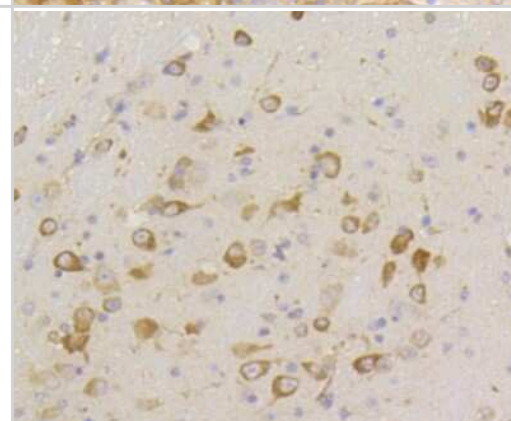
Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Analysis of paraffin-embedded human liver tissue using anti-Phospho-eIF-2a(S51) antibody. Counter stained with hematoxylin.



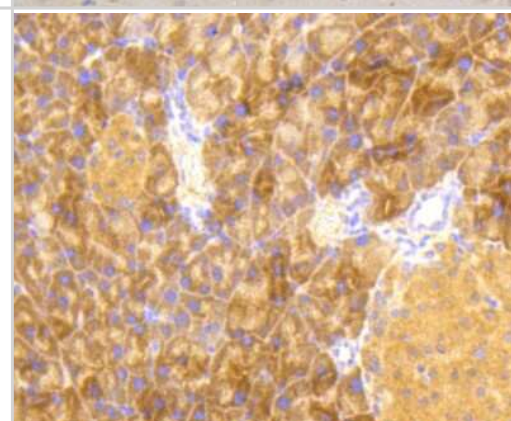
Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Analysis of paraffin-embedded human pancreas tissue using anti-Phospho-eIF-2a(S51) antibody. Counter stained with hematoxylin.



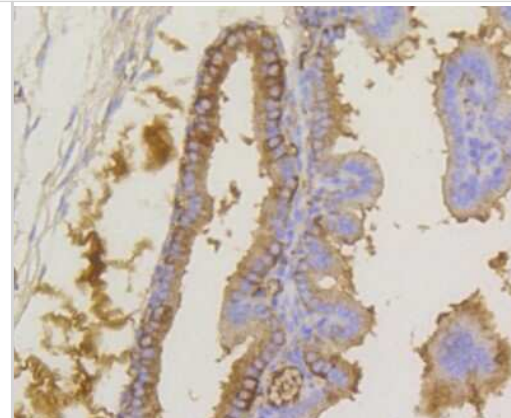
Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Analysis of paraffin-embedded mouse brain tissue using anti-Phospho-eIF-2a(S51) antibody. Counter stained with hematoxylin.



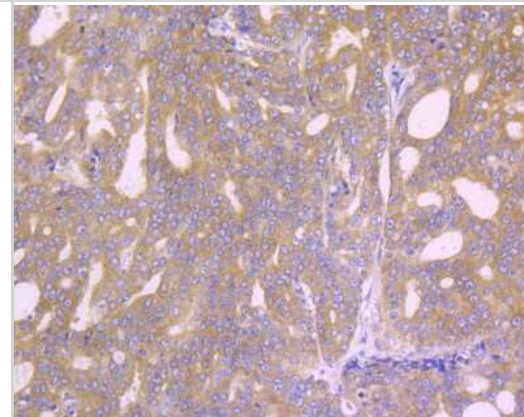
Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Analysis of paraffin-embedded mouse pancreas tissue using anti-Phospho-eIF-2a(S51) antibody. Counter stained with hematoxylin.



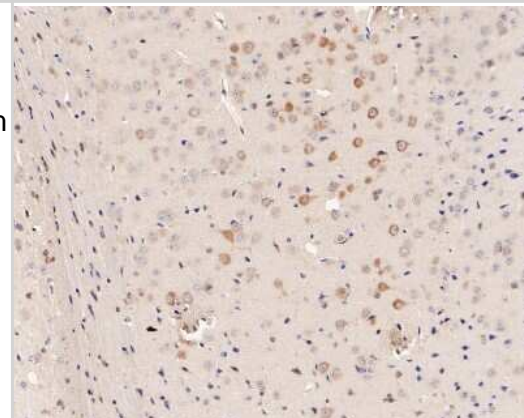
Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Analysis of paraffin-embedded mouse placenta tissue using anti-Phospho-eIF-2a(S51) antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Immunohistochemical analysis of paraffin-embedded human prostate carcinoma tissue using anti-eIF2A antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1603-14, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: eIF2A [p Ser51] Antibody (SZ01-06) [NBP2-67353] - Analysis of paraffin-embedded mouse brain tissue with Rabbit anti-eIF2A [p Ser51] antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Publications

Kowalczyk A, Marycz K, Kornicka J et Al. Tetrahydrocannabivarin (THCV) Protects Adipose-Derived Mesenchymal Stem Cells (ASC) against Endoplasmic Reticulum Stress Development and Reduces Inflammation during Adipogenesis *Int J Mol Sci* 2023-04-12 [PMID: 37108282]

Chen Y, Tristan CA, Lu C et al. A Versatile Polypharmacology Platform Promotes Cytoprotection and Viability of Human Pluripotent and Differentiated Cells *Nat Methods* 2021-05-04 [PMID: 33941937] (Simple Western)

Kornicka-Garbowska K, Bourebaba L, ROcken M, Marycz K Sex Hormone Binding Globulin (SHBG) Mitigates ER Stress in Hepatocytes In Vitro and Ex Vivo Cells 2021-03-30 [PMID: 33808055] (WB, Human)



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### **Products Related to NBP2-67353**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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