

## eIF4A3 Rabbit mAb

Catalog No: #49884

Package Size: #49884-1 50ul #49884-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

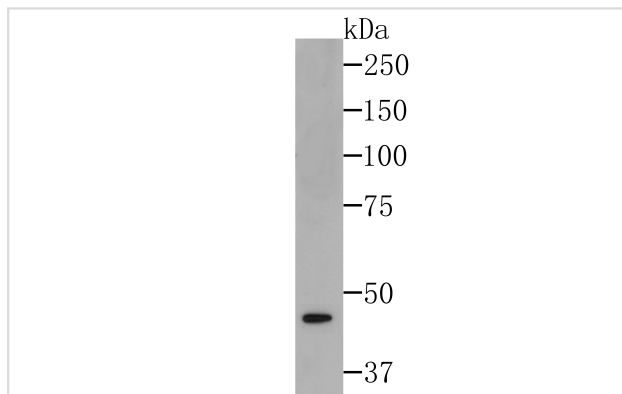
## Description

Product Name	eIF4A3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JG35-33
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC,IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein within human eIF4A3 aa 1-150.
Other Names	ATP-dependent RNA helicase DDX48 antibody ATP-dependent RNA helicase eIF4A-3 antibody DDX48 antibody DEAD box protein 48 antibody eIF-4A-III antibody eIF4A-III antibody EIF4A3 antibody eIF4AIII antibody Eukaryotic initiation factor 4A-III antibody Eukaryotic initiation factor 4A-like NUK-34 antibody Eukaryotic translation initiation factor 4A isoform 3 antibody hNMP 265 antibody IF4A3_HUMAN antibody NMP 265 antibody NMP265 antibody Nuclear matrix protein 265 antibody NUK34 antibody
Accession No.	Swiss-Prot#:P38919
Uniprot	P38919
GeneID	9775;
Calculated MW	47 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

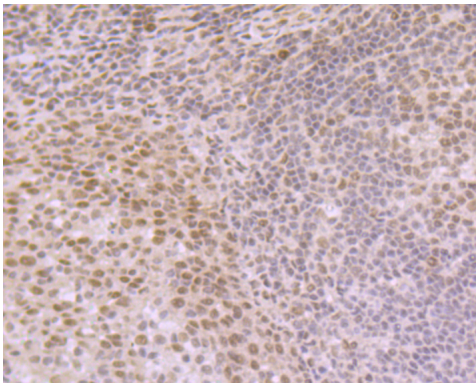
## Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

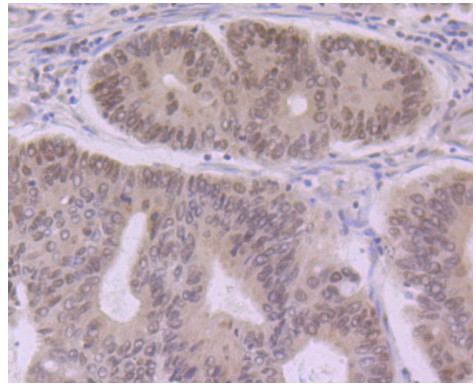
## Images



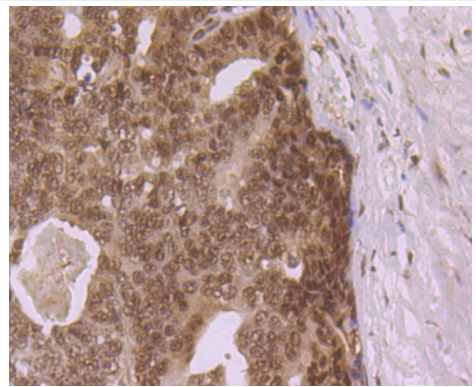
Western blot analysis of eIF4A3 on SiHa cell lysates using anti-eIF4A3 at 1/500 dilution.



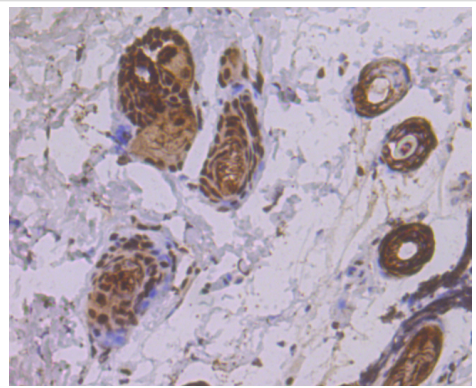
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-eIF4A3 antibody. Counter stained with hematoxylin.



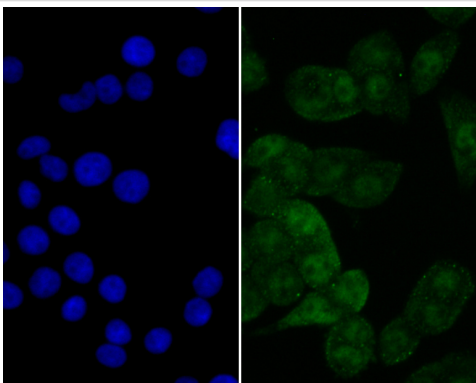
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-eIF4A3 antibody. Counter stained with hematoxylin.



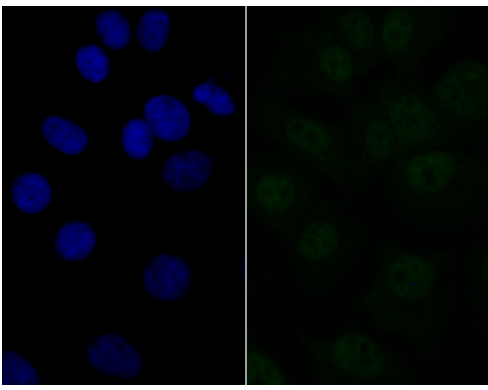
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti-eIF4A3 antibody. Counter stained with hematoxylin.



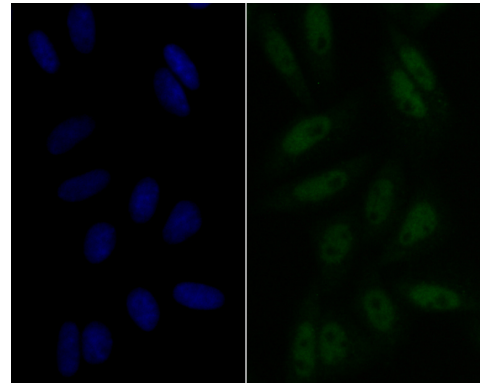
Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-eIF4A3 antibody. Counter stained with hematoxylin.



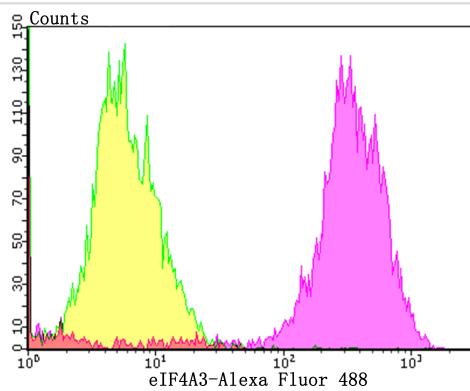
ICC staining eIF4A3 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining eIF4A3 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining eIF4A3 in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of MCF-7 cells with eIF4A3 antibody at 1/50 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

## Background

ATP-dependent RNA helicase. Involved in pre-mRNA splicing as component of the spliceosome. Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Its RNA-dependent ATPase and RNA-helicase activities are induced by CASC3, but abolished in presence of the MAGOH-RBM8A heterodimer, thereby trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation.

## References

Note: This product is for in vitro research use only