

Product datasheet

Anti-eIF4G1 (phospho S1108) antibody [SP351] - BSA and Azide free ab242419

RabMAb

5 Images

Overview

Product name	Anti-eIF4G1 (phospho S1108) antibody [SP351] - BSA and Azide free
Description	Rabbit monoclonal [SP351] to eIF4G1 (phospho S1108) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human eIF4G1 (phospho S1108). The exact sequence is proprietary. Database link: Q04637
Positive control	IHC-P: Human lung carcinoma, ovarian carcinoma, and bladder transitional cell carcinoma tissue.
General notes	FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com . Ab242419 is the carrier-free version of ab223502 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

ab242419 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated

antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	SP351
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab242419** 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Primary Antibody Incubation: 10 minutes at room temperature.

Target

Function	Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome.
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Involvement in disease

Defects in EIF4G1 are the cause of Parkinson disease type 18 (PARK18) [MIM:614251]. An autosomal dominant, late-onset form of Parkinson disease. Parkinson disease is a complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain.

Sequence similarities

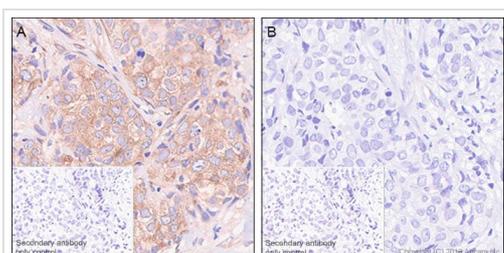
Belongs to the eIF4G family.
Contains 1 MI domain.
Contains 1 MIF4G domain.
Contains 1 W2 domain.

Post-translational modifications

Phosphorylated at multiple sites in vivo. Phosphorylation at Ser-1185 by PRKCA induces binding to MKNK1.

Following infection by certain enteroviruses, rhinoviruses and aphthoviruses, EIF4G1 is cleaved by the viral protease 2A, or the leader protease in the case of aphthoviruses. This shuts down the capped cellular mRNA transcription.

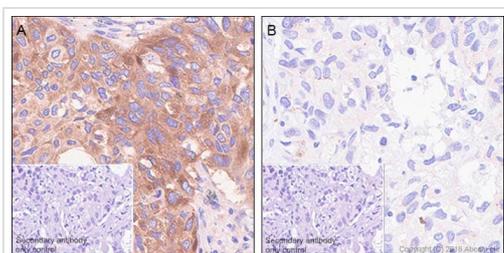
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4G1 (phospho S1108) antibody [SP351] - BSA and Azide free (ab242419)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human ovarian carcinoma tissue sections labeling eIF4G1 with Purified [ab223502](#) at 1/100 dilution (1.20 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

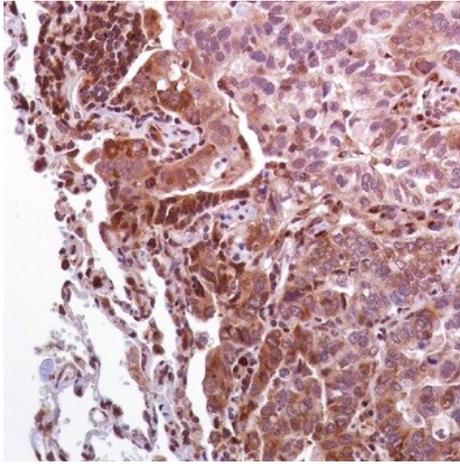
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab223502](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4G1 (phospho S1108) antibody [SP351] - BSA and Azide free (ab242419)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue sections labeling eIF4G1 with Purified [ab223502](#) at 1/100 dilution (1.20 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

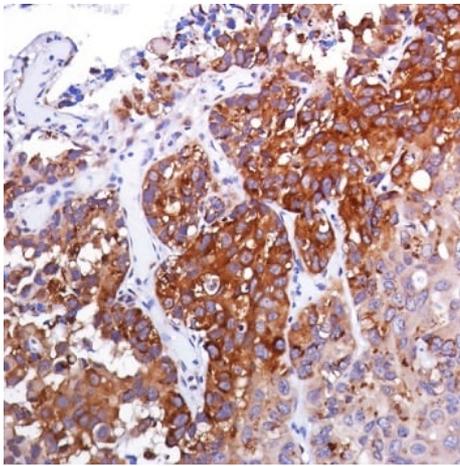
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4G1 (phospho S1108) antibody [SP351] - BSA and Azide free (ab242419)

Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for eIF4G1 (phospho S1108) with [ab223502](#) at 1/100 dilution in immunohistochemical analysis.

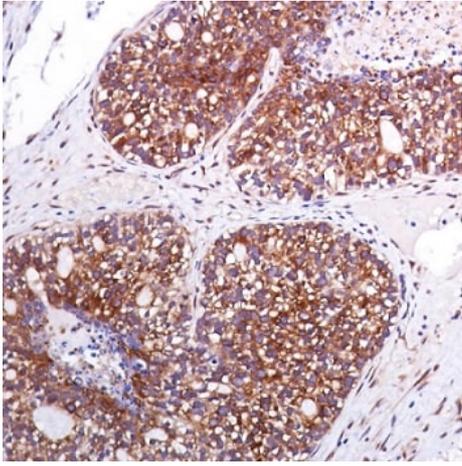
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide ([ab223502](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4G1 (phospho S1108) antibody [SP351] - BSA and Azide free (ab242419)

Formalin-fixed, paraffin-embedded human bladder transitional cell carcinoma tissue stained for eIF4G1 (phospho S1108) with [ab223502](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide ([ab223502](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4G1 (phospho S1108) antibody [SP351] - BSA and Azide free (ab242419)

Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for eIF4G1 (phospho S1108) with [ab223502](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide ([ab223502](#)).

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

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