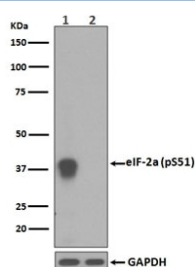


## Phospho-EIF2S1 Antibody (pS51) [clone IO-5] (RQ5120)

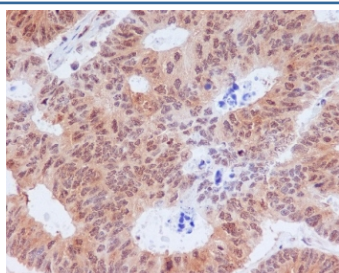
Catalog No.	Formulation	Size
RQ5120	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

[Bulk quote request](#)

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	IO-5
Purity	Affinity purified
UniProt	P05198
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:50-1:200
Limitations	This phospho-EIF2S1 antibody (pS51) is available for research use only.



Western blot testing of lysate from human HeLa cells 1) treated with Calyculin A and 2) untreated, with phospho-EIF2S1 antibody (pS51). Predicted molecular weight ~36 kDa.



IHC staining of FFPE human colon cancer with phospho-EIF2S1 antibody (pS51). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

## Description

EIF2S1 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 pre-initiation 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. [UniProt]

## Application Notes

Optimal dilution of the phospho-EIF2S1 antibody (pS51) should be determined by the researcher.

## Immunogen

A synthetic peptide specific to human EIF2S1 (surrounding phosphorylated S51) was used as the immunogen for the phospho-EIF2S1 antibody.

## Storage

Store the phospho-EIF2S1 antibody (pS51) at -20oC.