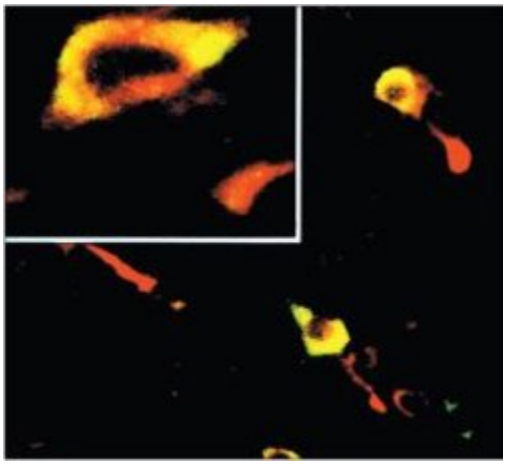
Phospho-EIF2S1 (Ser52) Polyclonal Antibody

Product Details	
Size	100 µL
Species	Human, Mouse, Yeast
Published Species	Yeast, Rat, C. elegans, Fruit fly, Non-human primate, Virus, Human, Mouse, Chicken
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human eIF2a that contains serine 52. This region is conserved among many species including rat, pig, cow, fruit fly and yeast.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 50% glycerol, 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2533736

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	Assay Dependent	2 Publications
Immunofluorescence (IF)	Assay Dependent	-
Western Blot (WB)	1:1000	59 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	1 Publication
Miscellaneous PubMed (Misc)	-	6 Publications

Product Images For Phospho-EIF2S1 (Ser52) Polyclonal Antibody



Phospho-EIF2S1 (Ser52) Antibody (44-728G) in IF
Rabbit anti eIF2alpha (pS52) phosphospecific polyclonal antibody. Left: Image shows immunocytochemical analysis of eIF2alpha (pS52) in rat brain (mediodorsal neocortex) sections following traumatic axonal injury (TAI) (24 h). Control (prior to injury induction) shows low basal levels of eIF2alpha (pS52) (see inset). Right: Image shows double labeling of APP (red) and eIF2alpha (pS52) (green) in neurons subjected to traumatic axonal injury (TAI). Inset (above): higher magnification of neuronal soma with TAI. eIF2alpha (pS52) immunofluorescence is localized in cytoplasm of neuronal cell body. (Singleton, R.H., et al. (2002) J. Neurosci. 22 (3): 791-802.)

68 References

Western Blot (59)

BMC genomics

Translation of upstream open reading frames in a model of neuronal differentiation.

"44-728G was used in Western Blotting to identify 4954 consistently translated uORFs across 31% of all neuroblastoma transcripts, via a spectral coherence algorithm (SPECtre)."

Authors: Rodriguez CM,Chun SY,Mills RE,Todd PK

Species
Human

Dilution
1:500

Year
2019

Molecular biology of the cell

Cellular eIF2B subunit localization: implications for the integrated stress response and its control by small molecule drugs.

"44-728G was used in Western Blotting to identify cytoplasmic eIF2B bodies in mammalian cells through studying the localization of eIF2B subunits."

Authors: Hodgson RE,Varanda BA,Ashe MP,Allen KE,Campbell SG

Species
Human

Dilution
1:1000

Year
2019

View more WB references on thermofisher.com

Immunocytochemistry (2)

mAbs

Single amino acid substitution in LC-CDR1 induces Russell body phenotype that attenuates cellular protein synthesis through eIF2 phosphorylation and thereby downregulates IgG secretion despite operational secretory pathway traffic.

"44-728G was used in Immunocytochemistry-immunoflourescence to illustrate that the underlining process of poor Ig secretion in RB-positive cells was due to downregulation of Ig synthesis instead of a disruption or blockade of secretory pathway trafficking."

Authors: Hasegawa H,Hsu A,Tinberg CE,Siegler KE,Nazarian AA,Tsai MM

Species
Human

Dilution
Not Cited

Year
2017

The Journal of biological chemistry

Phosphorylation of eIF2 facilitates ribosomal bypass of an inhibitory upstream ORF to enhance CHOP translation.

"44-728G was used in immunocytochemistry to investigate the relationship between eIF2 phosphorylation and CHOP during the stress response."

Authors: Palam LR,Baird TD,Wek RC

Species
Mouse

Dilution
Not Cited

Year
2011

More applications with references on thermofisher.com

Misc (6) **IHC (Free) (1)**