

For Research Use Only

EIF2AK1 Monoclonal antibody

Catalog Number:**67674-1-Ig**



Basic Information

Catalog Number:	67674-1-Ig	GenBank Accession Number:	BC006524	Purification Method:	Protein G purification
Size:	150ul , Concentration: 1000 ug/ml by Nanodrop and 586 ug/ml by Bradford method using BSA as the standard;	GenelD (NCBI):	27102	CloneNo.:	2H1F3
Source:	Mouse	UNIPROT ID:	Q9BQI3	Recommended Dilutions:	WB 1:5000-1:50000 IHC 1:150-1:600 IF/ICC 1:400-1:1600
Isotype:	IgG1	Full Name:	eukaryotic translation initiation factor 2-alpha kinase 1		
Immunogen Catalog Number:	AG16970	Calculated MW:	630 aa, 71 kDa		
		Observed MW:	71 kDa		

Applications

Tested Applications:	WB, IHC, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	Human	WB :	HeLa cells, MCF-7 cells, HepG2 cells, HEK-293 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IHC :	human breast cancer tissue,
		IF/ICC :	HeLa cells,

Background Information

Eukaryotic initiation factor 2a (eIF2a), which is a critical component in the formation of the translation initiation ternary complex (eIF2a/GTP/methionyl transfer RNA), plays a key role in the ER stress response. EIF2AK1, which is activated by heme deficiency and other stimuli, is a major kinase that phosphorylates EIF2-alpha. Phosphorylation of the alpha subunit of EIF2 downregulates protein synthesis in response to various stress conditions. EIF2AK1 has some isoforms with 630aa, 577aa and 422aa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

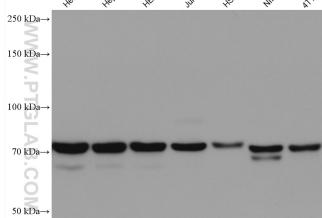
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

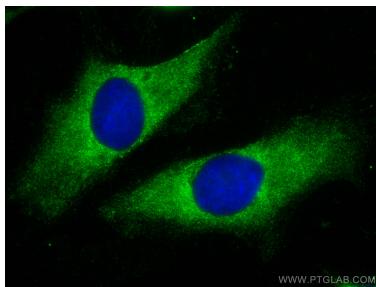
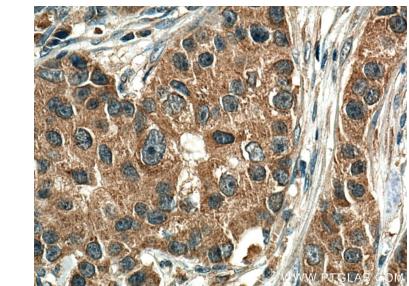
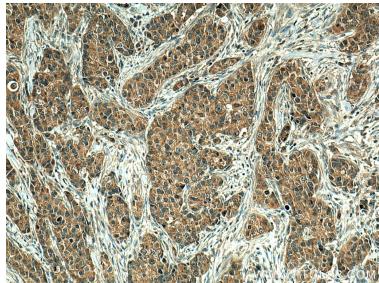
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67674-1-Ig (EIF2AK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using EIF2AK1 antibody (67674-1-Ig, Clone: 2H1F3) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L).