For Research Use Only

EIF2AK1 Polyclonal antibody

Catalog Number:20499-1-AP

Featured Product

10 Publications

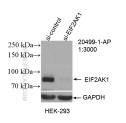


Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 20499-1-AP BC006524 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 550 $\mu g/ml$ by 27102 WB 1:1000-1:6000 Nanodrop: IHC 1:50-1:500 UNIPROT ID: IF 1:50-1:500 Source Q9BQI3 Rabbit Full Name: Isotype eukaryotic translation initiation factor 2-alpha kinase 1 lgG Immunogen Catalog Number: Calculated MW: AG14236 630 aa. 71 kDa **Observed MW:** 71 kDa **Applications Tested Applications:** Positive Controls: WB, IF, IHC, ELISA WB : HeLa cells, HepG2 cells, HEK-293 cells, K-562 **Cited Applications:** cells, MCF-7 cells WB, IP, ColP IHC : human breast cancer tissue, Species Specificity: IF : HepG2 cells, human **Cited Species:** human Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **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. Notable Publications Author Pubmed ID Journal Application Halime Kalkavan 36055199 Cell WB,IP WB Stefan Bauernfried 33243852 Science Jack Chun-Chieh Hsu WB Mol Cell 35316659 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

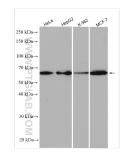
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

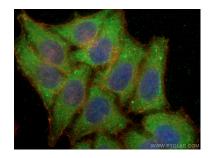
cells.



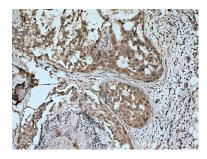
WB result of EIF2AK1 antibody (20499-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF2AK1 transfected HEK-293



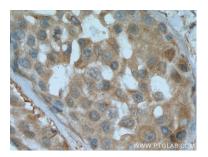
Various lysates were subjected to SDS PAGE followed by western blot with 20499-1-AP (EIF2AK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EIF2AK1 antibody (20499-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 20499-1-AP (EIF2AK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 20499-1-AP (EIF2AK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).