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Anti-eEF1A2 (Ser358) Antibody

Our Anti-eEF1A2 (Ser358) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is
Catalog # AN1372

Product Information

Application	WB
Primary Accession	Q05639
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	50470

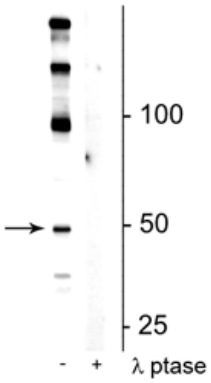
Additional Information

Gene ID	1917
Other Names	eEF1A-2 antibody, Eef1a2 antibody, EEF1AL antibody, EF 1 alpha 2 antibody, EF-1-alpha-2 antibody, EF1A antibody, EF1A2_HUMAN antibody, Elongation factor 1 A 2 antibody, Elongation factor 1 alpha antibody, Elongation factor 1 alpha 2 antibody, Elongation factor 1-alpha 2 antibody, Eukaryotic elongation factor 1 A-2 antibody, Eukaryotic translation elongation factor 1 alpha 2 antibody, FLJ41696 antibody, HS1 antibody, OTTHUMP00000031776 antibody, Statin like antibody, Statin S1 antibody, Statin-S1 antibody, STN antibody, STNL antibody
Target/Specificity	Eukaryotic Elongation Factor eEF1A exists in two variant forms, eEF1A1 and eEF1A2. While eEF1A1 is almost ubiquitously expressed in humans, eEF1A2 is predominantly found in heart, brain, and skeletal muscle (Knudsen et al., 1993). Expression of eEF1A2 may have a role in ovarian cancer, as its expression is drastically increased in human ovarian tumors (Anand et al., 2002). Due to differences in structural models between the two isoforms, eEF1A1 and eEF1A2 likely have variant-specific phosphorylation sites (Soares et al., 2009). Ribosome-associated JNK phosphorylates Ser-358 on eEF1A2 to promote degradation of newly synthesized polypeptides by the proteasome (Gandin et al., 2013).
Dilution	WB~~1:1000
Format	Antigen Affinity Purified from Pooled Serum
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-eEF1A2 (Ser358) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

Eukaryotic Elongation Factor eEF1A exists in two variant forms, eEF1A1 and eEF1A2. While eEF1A1 is almost ubiquitously expressed in humans, eEF1A2 is predominantly found in heart, brain, and skeletal muscle (Knudsen et al., 1993). Expression of eEF1A2 may have a role in ovarian cancer, as its expression is drastically increased in human ovarian tumors (Anand et al., 2002). Due to differences in structural models between the two isoforms, eEF1A1 and eEF1A2 likely have variant-specific phosphorylation sites (Soares et al., 2009). Ribosome-associated JNK phosphorylates Ser-358 on eEF1A2 to promote degradation of newly synthesized polypeptides by the proteasome (Gandin et al., 2013).

Images



Western blot of mouse hippocampal lysate showing specific immunolabeling of the ~50 kDa eEF1A2 protein phosphorylated at Ser358 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (λ-Ptase, 800 units/1mg protein for 30 min).