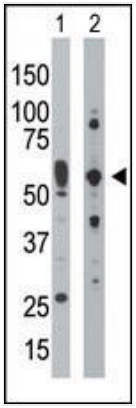
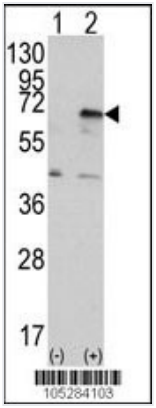
EIF2AK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

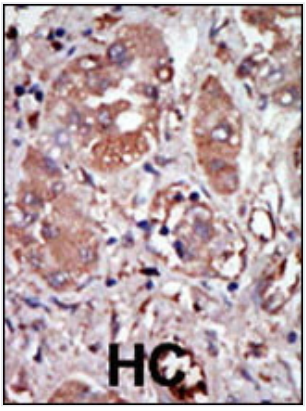
Product Name	EIF2AK2, Polyclonal Antibody
Full Product Name	EIF2AK2, CT (Eukaryotic Translation Initiation Factor 2-alpha Kinase 2, eIF-2A Protein Kinase 2, Interferon-induced, Double-stranded RNA-activated Protein Kinase, Interferon-inducible RNA-dependent pRotein Kinase, p68 kinase, Protein Kinase RNA-activated
Product Gene Name	anti-EIF2AK2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PRKR. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62kDa
3D Structure	ModBase 3D Structure for Q52M43
Immunogen	Synthetic peptide selected from the C-terminal region of human PRKR (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-EIF2AK2 antibody	Antibodies; Translation Initiation Factors
Applications Tested/Suitable for anti-EIF2AK2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-EIF2AK2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-EIF2AK2 antibody	MBS6475195 is an antibody targeting EIF2AK2. Also known as EIF2AK2, CT (Eukaryotic Translation Initiation Factor 2-alpha Kinase 2, eIF-2A Protein Kinase 2, Interferon-induced, Double-stranded RNA-activated Protein Kinase, Interferon-inducible RNA-dependent pRotein Kinase, p68 kinase, Protein Kinase RNA-activated. Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-EIF2AK2 antibody	1. Peel, A.L., et al., Neurobiol. Dis. 14(1):52-62 (2003). 2. Pang, Q., et al., J. Biol. Chem. 277(51):49638-49643 (2002). 3. Kim, S.H., et al., Oncogene 21(57):8741-8748 (2002). 4. Takizawa, T., et al., Eur. J. Biochem. 269(24):6126-6132 (2002). 5. Peters, G.A., et al., J. Virol. 76(21):11054-11064 (2002).
Other Notes	Small volumes of anti-EIF2AK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-EIF2AK2 antibody
The anti-PRKR Pab is used in Western blot to detect PRKR in mouse uterus tissue lysate (Lane 1) and HepG2 cell lysate (Lane 2).



Western Blot (WB) of anti-EIF2AK2 antibody
Western blot analysis of EIF2AK2 (arrow) using PRKR Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EIF2AK2 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-EIF2AK2 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF2AK2. It may not necessarily be applicable to this product.

NCBI GI #	4506103
NCBI GeneID	5610
NCBI Accession #	NP_002750
UniProt Primary Accession #	Q52M43
UniProt Related Accession #	P19525
GenBank Nucleotide #	NM_002759
NCBI Official Full Name	interferon-induced, double-stranded RNA-activated protein kinase isoform a
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2 alpha kinase 2
NCBI Official Symbol	EIF2AK2
NCBI Official Synonym Symbols	PKR; PRKR; EIF2AK1; PPP1R83
Protein Family	Interferon-induced, double-stranded RNA-activated protein kinase
NCBI Protein Information	interferon-induced, double-stranded RNA-activated protein kinase

NCBI Summary for EIF2AK2	The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
Research Articles on EIF2AK2	**1.** Disruption of PKR signaling, through inactivation of PKR or overexpression of either a wildtype or catalytically inactive mutant version of the p150 isoform of ADAR1, partially rescues cell lethality after ADAR1 loss, suggesting that both catalytic and non-enzymatic functions of ADAR1 may contribute to preventing PKR-mediated cell lethality.
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