eIF2 α polyclonal antibody

EIF-2α, also known as eukaryotic translation initiation factor 2α, promotes the binding of the initiator tRNA to the 40S ribosomal subunits and controls translational rates via phosphorylation/dephosphorylation mechanisms. The double-stranded RNA (dsRNA)-activated protein kinase (PKR) provides an important control in the regulation of protein synthesis initiation through the phosphorylation of eIF-2α. Phosphorylated eIF-2α inhibits cell growth and induces apoptosis. Phosphorylation of eIF-2α occurs under a variety of conditions including viral infection, apoptosis, nutrient deprivation, heme-deprivation, and certain stresses. EIF-2 exists as a heterotrimeric protein composed of 3 nonidentical subunits, alpha (36 kDa), beta (38 kDa), and gamma (52 kDa).

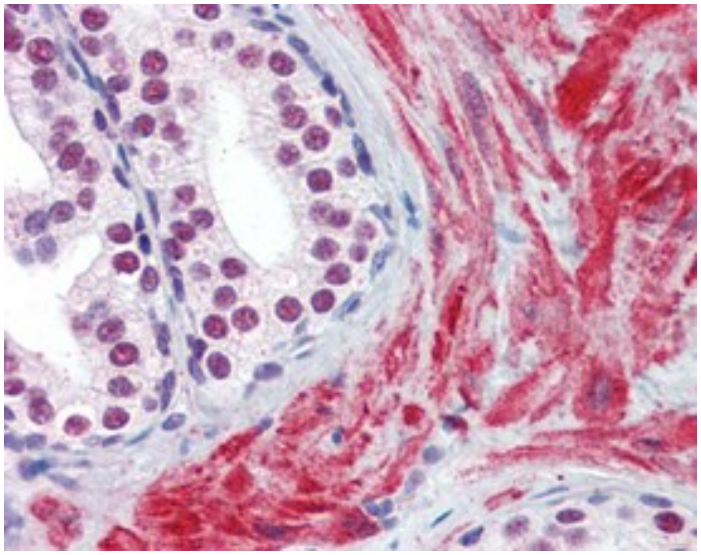
This antibody is covered by our Worry-Free Guarantee.

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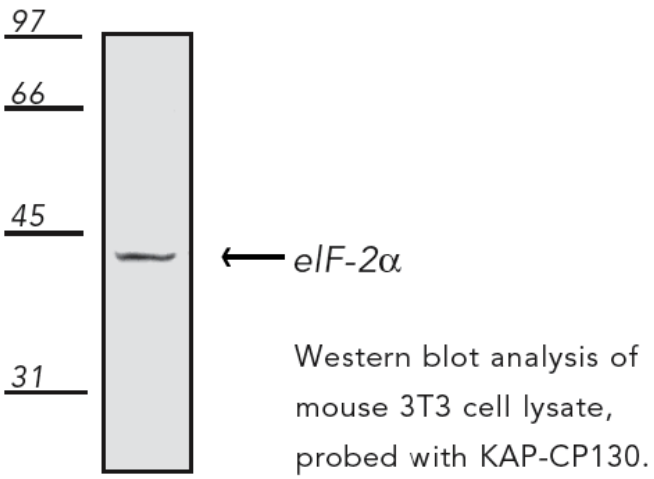
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ADI-KAP-CP130-D	50µg
ADI-KAP-CP130-F	200µg

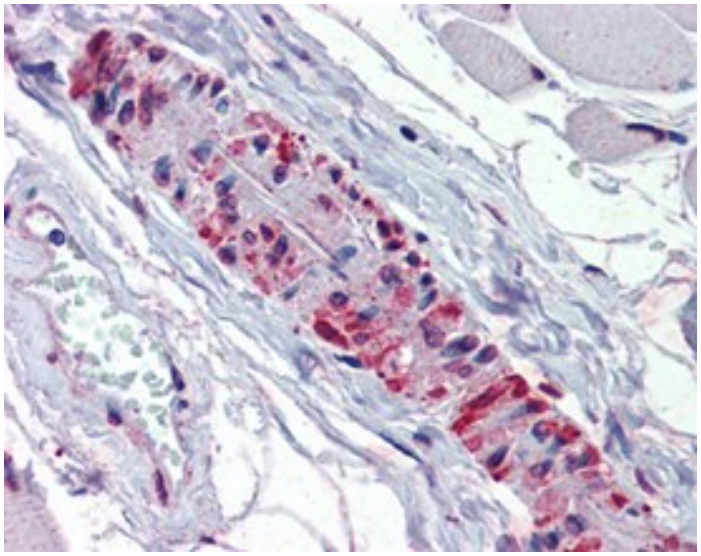
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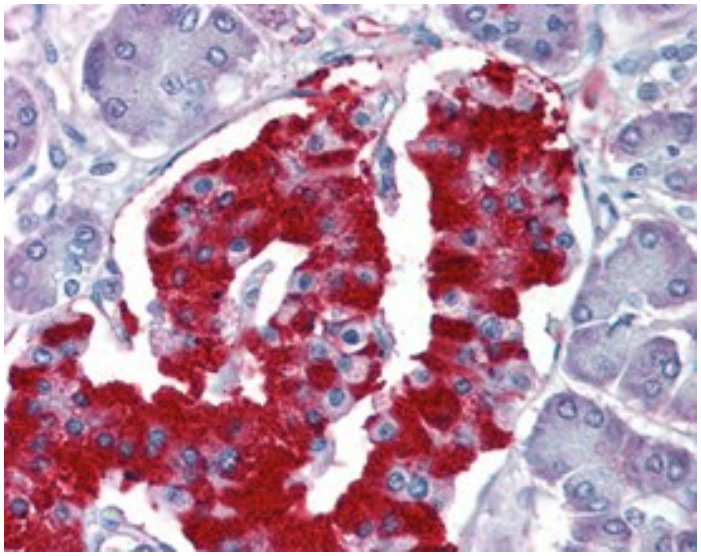
IHC Analysis: Human vessel tissue stained with eIF2 α, pAb at 10µg/ml.



Western blot analysis of mouse 3T3 cell lysate, probed with KAP-CP130.



IHC Analysis: Human pancreas tissue stained with eIF2α, pAb at 10µg/ml.



IHC Analysis: Human prostate tissue stained with eIF2 α, pAb at 10µg/ml.

Handling & Storage

Handling	Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Eukaryotic translation initiation factor 2 subunit α
Application	ICC, IHC (PS), WB
Application Notes	Detects a band of ~36kDa by Western blot.
Formulation	Liquid. In PBS, pH 7.2, containing 0.09% sodium azide and 50% glycerol.
Host	Rabbit
Immunogen	Synthetic peptide corresponding to a portion of rat eIF2-α.
Purity Detail	Immunoaffinity purified.
Recommendation Dilutions/Conditions	Western Blot (1µg/ml, ECL)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Source	Purified from rabbit serum.
Species Reactivity	Bovine, Dog, Guinea pig, Hamster, Human, Monkey, Mouse, Porcine, Rabbit, Rat, Sheep
UniProt ID	P68101
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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