

Anti-Eukaryotic Translation Initiation Factor 2 α (eIF-2 α) Antibody

ORDERING INFORMATION

Catalog Number	Quantity
12512-50	50ug
12512-200	200ug

BACKGROUND

EIF-2 α (eukaryotic translation initiation factor 2 α) 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-2 α . Phosphorylated eIF-2 α inhibits cell growth and induces apoptosis. Phosphorylation of eIF-2 α occurs under a variety of conditions including viral infection, apoptosis, nutrient deprivation, heme-deprivation, and certain stresses.

SPECIFICATION SUMMARY

Immunogen: A 13-residue phosphorylated synthetic peptide derived from rat eIF-2 α .

Host Species: Rabbit

Buffer: PBS, pH 7.2

Stabilizers: 50% glycerol

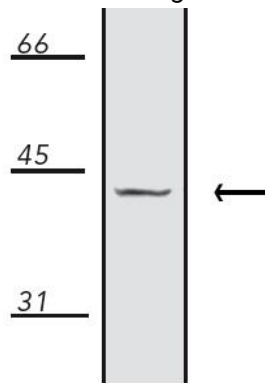
Preservatives: 0.09% sodium azide

SPECIFICITY

This antibody detects a ~36-38kDa protein on SDS-PAGE immunoblots. This antibody recognizes human, mouse, rat, bovine, canine, guinea pig, hamster, monkey, pig, rabbit, and sheep eIF-2 α .

APPLICATIONS

Immunoblotting: use at 1ug/ml.



Western blot analysis of eIF-2 α in NIH/3T3 cell lysate with eIF-2 α antibody at 1ug/ml.

Positive control: NIH/3T3 cell lysate.

These are recommended concentrations. Enduser should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.