Product Datasheet

Anti-eIF2α Rabbit pAb Wanleib

WL01909

For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name Anti-elF2α Rabbit pAb

Source Rabbit

Species reactivity Human, Mouse, Rat

Tested applications WB 1:500-1:1000

IHC 1:100

Cellular localization Cytoplasm, extracellular space

Pack size 50/100/200/500/1000μl

Storage Store at -20°C. Avoid freeze/thaw cycles.

Storage buffer Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml

BSA, 50% glycerol and less than 0.02% sodium azide

General Information

Background EIF2α is a 65-kD protein that catalyzes the formation of puromycin-

sensitive 80S preinitiation complexes. EIF2 α , also known as EIF2S1 or EIF2, is a 315 amino acid subunit of the eukaryotic initiation complex that functions to bind tRNA to the 40S ribosomal subunit (in a GTP-dependent manner), thereby initiating translation. Phosphorylation of the eukaryotic initiation factor 2 (eIF2) α subunit is a well-documented

mechanism to downregulate protein synthesis under a variety of stress conditions. When eIF2 α is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2 α is stabilized, thus preventing the GDP/GTP exchange reaction and

slowing translation.

Immunogen Polyclonal antibody is produced by immunizing animals with a synthetic

peptide of eIF2 α .

Purification Polyclonal antibody was purified by immunogen affinity chromatography.

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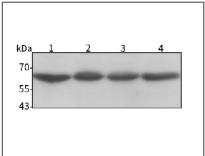
Anti-eIF2α Rabbit pAb



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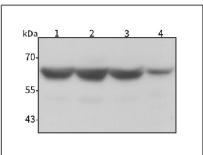
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Product Images



Western blot-Anti-eIF2α pAb

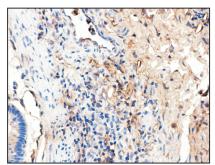
Lane 1: Human CAL-27 cell lysate
Lane 2: Human Hela cell lysate
Lane 3: Human HL-60 cell lysate
Lane 4: Human THP-1 cell lysate
All lanes: Anti-eIF2α at 1:1000 dilution
Lysates/proteins at 20-50 μg per lane.
Predicted band size: 65 kDa
Observed band size: 65 kDa



Western blot-Anti-eIF2α pAb

Lane 1: Mouse lung tissue lysate
Lane 2: Mouse skin tissue lysate
Lane 3: Rat testis tissue lysate
Lane 4: Rat colon tissue lysate
All lanes: Anti-eIF2α at 1:1000 dilution
Lysates/proteins at 20-50 μg per lane.
Predicted band size: 65 kDa

Observed band size: 65 kDa



Immunohistochemistry-Anti-eIF2a pAb

Immunohistochemical analysis of paraffin-embedded human colon cancer using anti-eIF2α Rabbit Antibody at 1:100 dilution.

 $Perform\,heat\,mediated\,antigen\,retrieval\,with\,Tris\text{-}EDTA\,buffer\,pH\,9.0$

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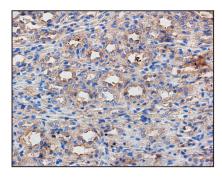
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Immunohistochemistry-Anti-eIF2α pAb

Immunohistochemical analysis of paraffin-embedded rat kidneyusing anti-eIF2α Rabbit Antibody at 1:100 dilution. Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0