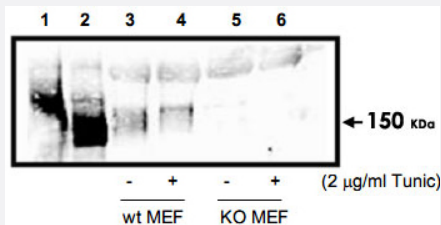


Eif2ak3 polyclonal antibody

Catalog # PAB10175 Size 100 uL

Applications

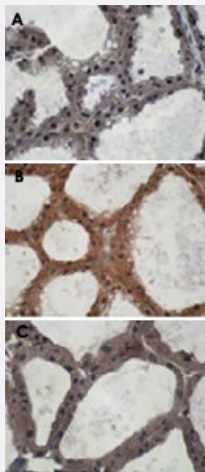


Western Blot (Transfected lysate)

Western blot analysis using Eif2ak3 polyclonal antibody (Cat # PAB10175) to detect Eif2ak3 in cell lysates. 300 ug Eif2ak3 over-expressing 293T cell lysate (lanes 1 & 2), or 800 ug wild type (Lanes 3 & 4), and Eif2ak3 knock out (lanes 5 & 6) MEF cell lysate were immunoprecipitated with 15 uL anti-Eif2ak3, followed by immunoblotting with 1:1000 dilution of Eif2ak3 polyclonal antibody in 5% milk/TBST buffer.

Lane 1, 293T cells over-expressing Myc-Eif2ak3 wt, Lane 2, 293T cells over-expressing Myc-Eif2ak3 K618A.

Personal Communication. A, Diehl, Univ. of Pennsylvania, Philadelphia, PA.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry staining of mouse mammary gland samples from lactating mice (L10) with Eif2ak3 polyclonal antibody (Cat # PAB10175). Positive staining signal observed in wild type mouse sample with Eif2ak3 polyclonal antibody staining only (B), but not in the knock out mouse sample (C) and pre-immune serum staining (A).

The Eif2ak3 polyclonal antibody (Cat # PAB10175) was diluted in 1 : 1,000. Personal Communication. A, Diehl, Univ. of Pennsylvania, Philadelphia, PA.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant Eif2ak3.
Immunogen	Recombinant protein corresponding to amino acids 601-1115 of mouse Eif2ak3.
Host	Rabbit

Reactivity	Mouse
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Western Blot (1:500-1:3000) Immunoprecipitation (10-30ul) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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- Immunofluorescence

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — Eif2ak3

Entrez GeneID	13666
Protein Accession#	AAH54809;Q9Z2B5
Gene Name	Eif2ak3
Gene Alias	A427929, Pek, Perk
Gene Description	eukaryotic translation initiation factor 2 alpha kinase 3
Gene Ontology	Hyperlink
Other Designations	-

Publication Reference

- [Nrf2 as a novel molecular target for chemoprevention.](#)

Lee JS, Surh YJ.

Cancer Letters 2005 Jun; 224(2):171.

- [Nrf2 is a direct PERK substrate and effector of PERK-dependent cell survival.](#)

Cullinan SB, Zhang D, Hannink M, Arvisais E, Kaufman RJ, Diehl JA.

Molecular and Cellular Biology 2003 Oct; 23(20):7198.

Application: IP, Mouse, NIH/3T3 cells

- [Dimerization and release of molecular chaperone inhibition facilitate activation of eukaryotic initiation factor-2 kinase in response to endoplasmic reticulum stress.](#)

Ma K, Vatter KM, Wek RC.

The Journal of Biological Chemistry 2002 May; 277(21):18728.

Application: IP, WB-Tr, Human, HEK 293T cells