

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PEA-15 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PEA-15 Ala2-Ala130 Accession # Q15121
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PEA-15 (Phosphoprotein Enriched in Astrocytes of 15 kDa) is a 15 kDa cytoplasmic protein that regulates cell proliferation and apoptosis. It is expressed in multiple cell types such as astrocytes; skeletal muscle and adipocytes. Human PEA-15 is 130 amino acids (aa) in length. It contains a death effector domain (aa 3-81), plus two regulatory Ser phosphorylation sites. In a quiescent cell, it is either non-phosphorylated or constitutively phosphorylated at Ser116. Non-phosphorylated PEA-15 binds ERK, inhibiting cell proliferation. Phosphorylation at Ser116 promotes PEA-15 binding to FADD, blocking apoptosis. And activation-induced phosphorylation at Ser104 blocks PEA-15 binding to ERK, promoting cell proliferation. There is one potential alternate start site 21 aa upstream of the standard start site, and a second isoform that shows an Asn substitution for aa 36-58. Full-length human and mouse PEA-15 show 99% aa identity.

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