



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## PEA-15 (m): 293T Lysate: sc-122478

### BACKGROUND

PEA-15 (Phosphoprotein Enriched in Astrocytes) exists in a non-phosphorylated form (N), and two phosphorylated forms, Pa and Pb. PEA-15 is an endogenous substrate for PKC, which mediates the transition from Pa to Pb. The level of PEA-15 phosphorylation changes upon depolymerization or stabilization of tubulins, indicating that PEA-15 colocalizes with microtubules. The first 80 amino acids of PEA-15 correspond to the death effector domain (DED), which is a domain found in proteins that regulate apoptotic signaling pathways. The DED domain is necessary for PEA-15 to block Ras suppression. Although PEA-15 is predominantly expressed in the central nervous system, low levels of PEA-15 are expressed in liver and kidney, and higher levels in muscle. PEA-15 is also referred to as PED, Phosphoprotein Enriched in Diabetes, for its elevated expression in type 2 diabetic patients.

### REFERENCES

1. Araujo, H., et al. 1993. Characterization of PEA-15, a major substrate for protein kinase C in astrocytes. *J. Biol. Chem.* 268: 5911-5920.
2. Danzinger, N., et al. 1995. Cellular expression, developmental regulation, and phylogenetic conservation of PEA-15, the astrocytic major phosphoprotein and protein kinase C substrate. *J. Neurochem.* 64: 1016-1025.
3. Chinnaiyan, A., et al. 1995. FADD, a novel death domain-containing protein, interacts with the death domain of Fas and initiates Apoptosis. *Cell* 81: 505-512.
4. Estelles, A., et al. 1996. The major astrocytic phosphoprotein PEA-15 is encoded by two mRNAs conserved on their full length in mouse and human. *J. Biol. Chem.* 271: 14800-14806.
5. Ramos, J., et al. 1998. The death effector domain of PEA-15 is involved in its regulation of Integrin activation. *J. Biol. Chem.* 273: 33897-33900.
6. Condorelli, G., et al. 1998. PED/PEA-15 gene controls glucose transport and is verexpressed in type 2 diabetes mellitus. *EMBO J.* 17: 3858-3866.
7. Gaumont-Leclerc, M.F., et al. 2004. PEA-15 is inhibited by adenovirus E1A and plays a role in ERK nuclear export and Ras-induced senescence. *J. Biol. Chem.* 279: 46802-46809.
8. Sharif, A., et al. 2004. The expression of PEA-15 (phosphoprotein enriched in astrocytes of 15 kDa) defines subpopulations of astrocytes and neurons throughout the adult mouse brain. *Neuroscience* 126: 263-275.
9. Sharif, A., et al. 2003. PEA-15 modulates TNF $\alpha$  intracellular signaling in astrocytes. *Ann. N.Y. Acad. Sci.* 1010: 43-50.

### CHROMOSOMAL LOCATION

Genetic locus: Pea15 (mouse) mapping to 1 H3.

### PRODUCT

PEA-15 (m): 293T Lysate represents a lysate of mouse PEA-15 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### APPLICATIONS

PEA-15 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PEA-15 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

### STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.