Order: 877-772-2622
Support: support@epitomics.com
Web: www.epitomics.com

Phospho Adducin alpha (pS481) Rabbit Monoclonal Antibody Product Data Sheet

Catalog # 1762-1

Clone ID: EP733Y **Lot #:** *Please refer to the vial*
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: + **Human** + **Mouse** + **Rat**
Applications: + **WB** + **IHC** + **ICC** - **Flow Cytometry** + **IP**
Molecular Wt.: 130 kDa
UniProt ID: P35611

Background: Adducin is a membrane skeletal protein that binds to actin filaments (F-actin) and promotes the association of spectrin with F-actin to form a spectrin-actin meshwork beneath plasma membranes (1-2). Adducin is a heterodimeric protein that consists of related subunits; α and β, or α and γ subunits (3). Adducin binds with high affinity to Ca(2+)/calmodulin and is a substrate for protein kinase C (PKC), and protein kinase A (PKA) (4). PKA specifically phosphorylates Ser408, Ser436, and Ser481 located in the neck domain of alpha Adducin. Phosphorylation of Adducin alpha by Rho-kinase at Thr445 and Thr480 enhances the F-actin-binding activity of Adducin alpha (5).

Specificity: A synthetic phospho-peptide corresponding to residues surrounding Ser481 of human alpha Adducin was used as an immunogen. The antibody only detects alpha Adducin phosphorylated on Serine 481.

Storage Conditions: Store at -20 ℃. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:
WB: 1:1,000 – 10,000
IHC: 1:250 - 500
ICC: 1:100 -250
IP: 1:50
Please visit www.epitomics.com for recommended protocols

Background References:
1. Gardner K, Bennett V., *J Biol Chem* 261:1339-1348, 1986.
2. Kuhlman PE, et al. *J Biol. Chem*, 271: 7986-7991, 1996.
3. Dong, LC, et al. *J Biol Chem* 270: 25534-25540, 1995.
4. Palfrey HC, et al. *J Biol Chem*. 260:16021-16029, 1985.
5. Fukata, et al. *J Cell Biol*, 145:347-361, 1995.

Related Products:

Antigen	*Clone*	*Catalog #*
Adducin alpha (C-term)	EP734Y	1706-1
PKA, RII (C-term)	Y1161	1528-1
PKCa	Y143	1608-1
PKCa (C-term)	Y124	1510-1

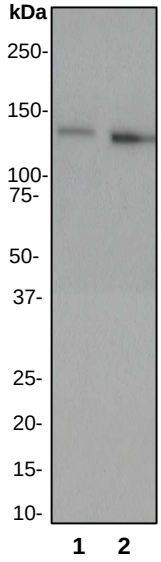

Fig 1. Western blot analysis on (1) Hela cell lysate and (2) HeLa lysate + TPA using anti-Phospho-Adducin (pS481) RabMAb (catalog #1762-1).

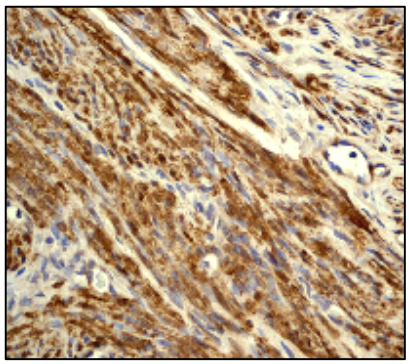

Fig 2. Immunohistochemical analysis of paraffin-embedded human uterus using anti-Adducin alpha Rab MAb. (cat. # 1762-1).

Product QC'd by: _____

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