Product datasheet for TA322765

Caldesmon (CALD1) Rabbit Polyclonal Antibody

Product data:

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Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-150 Positive control: Human lung cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 26-207 amino acids of human caldesmon 1
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	caldesmon 1
Database Link:	NP_149347 Entrez Gene 25687 RatEntrez Gene 800 Human Q05682
Background:	This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin; actin; tropomyosin; myosin; and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase; and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.?

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Synonyms: CDM; H-CAD; HCAD; L-CAD; LCAD; NAG22

Protein Pathways: Vascular smooth muscle contraction

Product images:
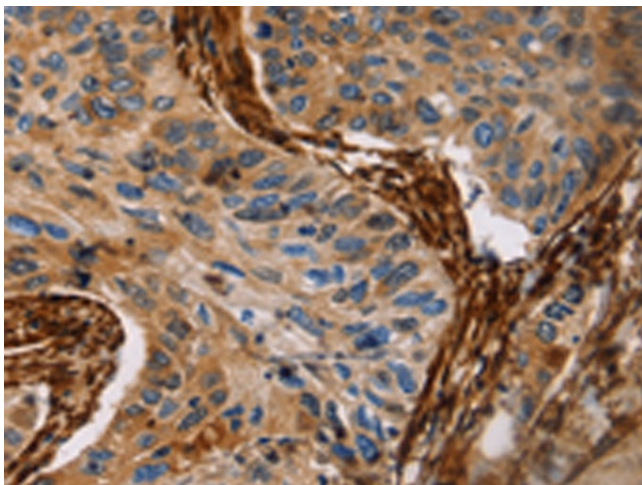
Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA322765 (CALD1 Antibody) at dilution 1/35 (Original magnification: ×200)
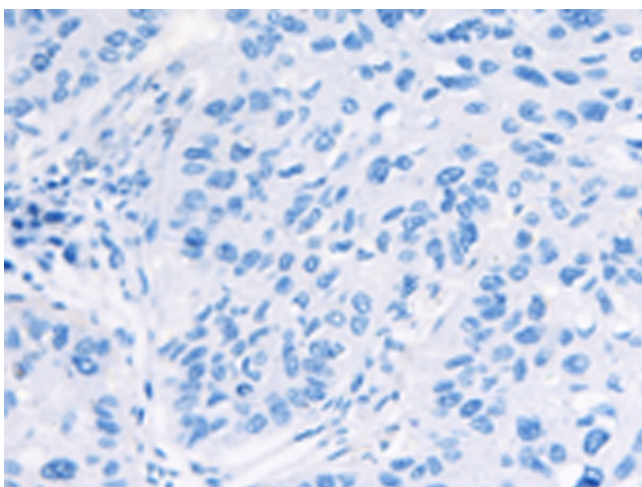
Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA322765 (CALD1 Antibody) at dilution 1/35, treated with fusion protein. (Original magnification: ×200)