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DRAK2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7221b

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	O94768
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42344
Antigen Region	342-371

Additional Information

Gene ID	9262
Other Names	Serine/threonine-protein kinase 17B, DAP kinase-related apoptosis-inducing protein kinase 2, STK17B, DRAK2
Target/Specificity	This DRAK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 342-371 amino acids from the C-terminal region of human DRAK2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DRAK2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STK17B
Synonyms	DRAK2
Function	Phosphorylates myosin light chains (By similarity). Acts as a positive regulator of apoptosis.

Cellular Location	Nucleus. Cell membrane. Endoplasmic reticulum-Golgi intermediate compartment. Note=Colocalizes with STK17B at the plasma membrane.
Tissue Location	Highly expressed in placenta, lung, pancreas. Lower levels in heart, brain, liver, skeletal muscle and kidney

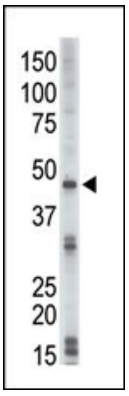
Background

DRAK2 is a novel serine/threonine kinase that induces apoptosis via catalytic activity. DRAKs present high sequence homology to DAP and ZIP kinases, and they represent a novel family of serine/threonine kinases. DRAK2 is located in nucleus, and the messenger RNA is ubiquitously expressed in human tissues.

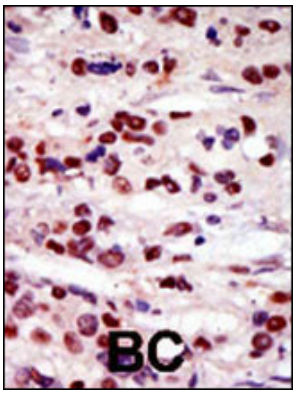
References

Sanjo, H., et al., J. Biol. Chem. 273(44):29066-29071 (1998).

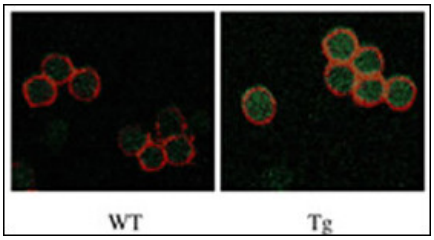
Images



The anti-DRAK2 Pab (Cat. #AP7221b) is used in Western blot to detect DRAK2 in mouse lung tissue lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



IF staining of Drak2 in WT versus Tg T cells. Permeablized lymph node T cells were double-stained with rabbit anti-Drak2/sheep anti-rabbit Ig-FITC and anti-Thy1.2-PE monoclonal antibody, and signals were registered by confocal microscopy. THE cell surface Thy1.2 is shown in red, and intracellular Drak2 is in green.

Citations

- Drak2 is upstream of p70S6 kinase: its implication in cytokine-induced islet apoptosis, diabetes, and islet

transplantation.
- Transgenic drak2 overexpression in mice leads to increased T cell apoptosis and compromised memory T cell development.