

DRAK1 Antibody

Catalog # ASC10072

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9UEE5
Other Accession	Q9UEE5 , 14423930
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	46558
Conjugate	Unconjugated
Application Notes	DRAK1 antibody can be used for detection of DRAK1 by Western blot at 1 μ g/mL. An approximately 50 kDa band can be detected. Antibody can also be used for immunocytochemistry starting at 2 μ g/mL. For immunofluorescence start at 10 μ g/mL.

Additional Information

Gene ID	9263
Other Names	DRAK1 Antibody: DRAK1, DRAK1, DAP kinase-related apoptosis-inducing protein kinase 1, serine/threonine kinase 17a
Target/Specificity	STK17A; No cross responses to DRAK2, DAP or ZIP kinases.
Reconstitution & Storage	DRAK1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	DRAK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STK17A
Synonyms	DRAK1
Function	Acts as a positive regulator of apoptosis. Also acts as a regulator of cellular reactive oxygen species.
Cellular Location	Nucleus.
Tissue Location	Highly expressed in placenta. Lower levels in heart, lung, skeletal muscle, kidney and pancreas

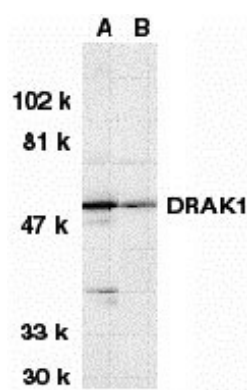
Background

DRAK1 Antibody: Apoptosis is mediated by death domain containing adapter molecules and a caspase family of proteases. Certain serine/threonine protein kinases, such as ASK-1 and RIP, are mediators of apoptosis. Two novel serine/threonine kinases that induce apoptosis were recently identified and designated DRAK1 and DRAK2 for DAP kinase-related apoptosis-inducing protein kinases. DRAKs contain an N-terminal kinase domain and a C-terminal regulation domain. Overexpression of DRAK1 induces apoptosis. DRAKs have high sequence homology to DAP and ZIP kinases, and they represent a novel family of serine/threonine kinases, which mediates apoptosis through their catalytic activities. DRAK1 is located in nucleus and the messenger RNA was ubiquitously expressed in human tissues.

References

Sanjo H, Kawai T, Akira S. DRAKs, novel serine/threonine kinases related to death-associated protein kinase that trigger apoptosis. *J Biol Chem* 1998;273:29066-71

Images

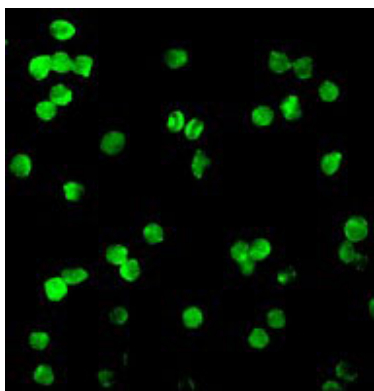


Western blot analysis of DRAK1 in (A) MOLT4 and (B) A431 whole cell lysates with DRAK1 antibody at 1 $\mu\text{g/mL}$.



Immunocytochemistry staining of MOLT4 cells using DRAK1 antibody at 2 $\mu\text{g/mL}$.

Immunofluorescence of DRAK1 in Molt cells with DRAK1 antibody at 20 $\mu\text{g/mL}$.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.