

DRAK1 Antibody

DRAK1 (NT): DAP-kinase related apoptosis inducing protein kinase 1

CATALOG NO.: 2147

BACKGROUND:

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 (1). 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 (1).

SOURCE:

Rabbit polyclonal DRAK1 antibody was raised against a peptide corresponding to amino acids near the amino terminus of human DRAK1 (Genbank accession No. Q9UEE5).

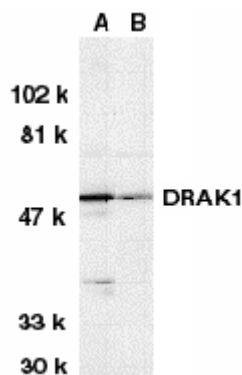
APPLICATION:

DRAK1 antibody can be used for detection of DRAK1 by Western blot at 0.5 – 1 µg/ml. (Optimal dilution should be determined by user.) A431 or MOLT4 whole cell lysate can be used as positive control and an approximately 50 kDa band can be detected. DRAK1 antibody is human specific, and has no cross responses to DRAK2, DAP or ZIP kinases.

For research use only.

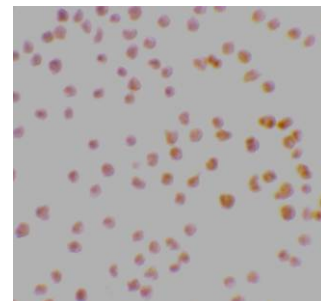
STORAGE:

DRAK1 antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of DRAK1 in (A) MOLT4 and (B) A431 whole cell lysates with DRAK1 antibody at 1 µg/ml.

Immunocytochemical staining of MOLT4 cells using DRAK1 antibody at 2 µg/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **2147P**.
MOLT4 Cell Lysate, Catalog No. **1206**.
DRAK2 Antibody (CT), Catalog No. **2149**.
DAPK2 Antibody (CT), Catalog No. **2323**.
ZIPK Antibody (IN), Catalog No. **2067**.

REFERENCES:

1. 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. (RD0306)