

## DRAK2 Antibody

*DRAK2 (CT): DAP-kinase related apoptosis inducing protein kinase2*

**CATALOG NO.: 2149**

### 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 DRAK2 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. DRAK2 is located in nucleus and the messenger RNA was ubiquitously expressed in human tissues (1).

### SOURCE:

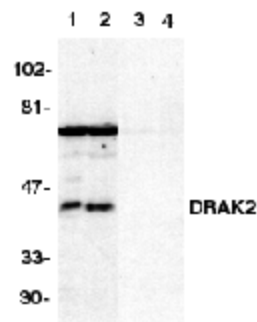
Rabbit polyclonal DRAK2 antibody was raised against a peptide corresponding to 15 amino acids near the carboxy terminus of DRAK2.

### APPLICATION:

DRAK2 antibody can be used for detection of DRAK2 by Western blot at 0.5 - 1 µg/ml. (Optimal dilution should be determined by user.) Whole cell lysate from Jurkat cells can be used as positive control and an approximately 45 kDa band can be detected. DRAK2 antibody has no cross responses to DAP or ZIP kinases. The approximately 70 kDa band is probably non-related to DRAK2 although it is peptide blockable. **For research use only.**

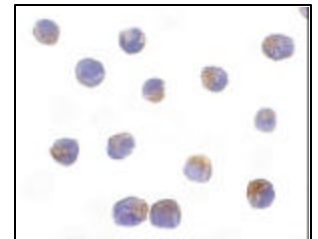
### STORAGE:

DRAK2 antibody is supplied as ion exchange chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of DRAK2 in Jurkat (1,3) and Raji (2,4) cell lysate in the absence (1,2) or presence (3,4) of blocking peptide with DRAK2 antibody at 1 µg/ml.

Immunocytochemistry of DRAK2 in Jurkat cells with DRAK2 antibody at 10 µg/ml.



### RELATED PRODUCTS:

Blocking peptide, Catalog No. **2147P**.  
Jurkat Cell Lysate, Catalog No. **1205**.  
DRAK1 Antibody (CT), Catalog No. **2147**.  
DAPK2 Antibody (CT), Catalog No. **2323**.  
ZIPK Antibody (IN), Catalog No. **2067**.

### REFERENCES:

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

(06-01D)