

Product datasheet

Anti-DRAK2 antibody ab8419

1 Abreviews 3 Images

Overview

<b>Product name</b>	Anti-DRAK2 antibody
<b>Description</b>	Rabbit polyclonal to DRAK2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide: CSKRFRFDDSLPNPHE , corresponding to amino acids 351/365 of Human DRAK2. (Peptide available as <a href="#">ab8454</a> .)

 [Run BLAST with](#)  [Run BLAST with](#)

**Positive control** Wholecell lysate from Jurkat cells An approximately 45 kDa band can be detected.

General notes

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.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	PBS with 0.02% sodium azide
<b>Purity</b>	Ion Exchange Chromatography
<b>Purification notes</b>	DRAK2 Antibody is Ion exchange chromatography purified.
<b>Primary antibody notes</b>	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.

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Light chain type</b>	unknown

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab8419** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 45 kDa (predicted molecular weight: 43 kDa). Can be blocked with <a href="#">Human DRAK2 peptide (ab8454)</a> .
ICC/IF		Use a concentration of 10 µg/ml.

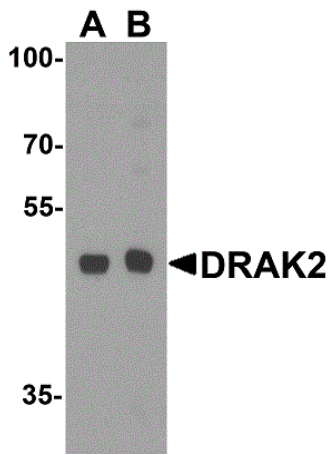
## Target

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<b>Function</b>	Acts as a positive regulator of apoptosis.
<b>Tissue specificity</b>	Highly expressed in placenta, lung, pancreas. Lower levels in heart, brain, liver, skeletal muscle and kidney.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. DAP kinase subfamily. Contains 1 protein kinase domain.
<b>Post-translational modifications</b>	Autophosphorylated.
<b>Cellular localization</b>	Nucleus.

## Images

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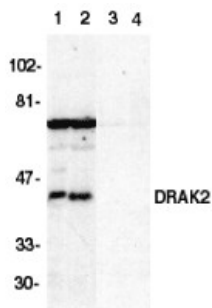
Western blot - Anti-DRAK2 antibody (ab8419)

**Lane 1** : Anti-DRAK2 antibody (ab8419) at 1  $\mu\text{g/ml}$  (DRAK2 antibody)

**Lane 2** : Anti-DRAK2 antibody (ab8419) at 2  $\mu\text{g/ml}$  (DRAK2 antibody)

**All lanes** : Raji cell lysate

**Predicted band size:** 43 kDa



Western blot - Anti-DRAK2 antibody (ab8419)

**All lanes** : Anti-DRAK2 antibody (ab8419) at 1/500 dilution

**Lane 1** : Jurkat whole cell lysate with absence of blocking peptide

**Lane 2** : Raji whole cell lysate with absence of blocking peptide

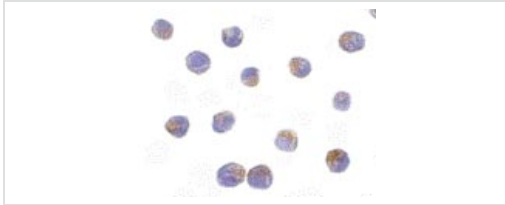
**Lane 3** : Jurkat whole cell lysate with presence of blocking peptide

**Lane 4** : Raji whole cell lysate with presence of blocking peptide

**Predicted band size:** 43 kDa

**Observed band size:** 45 kDa

We are unsure about the nature of the 70 kDa band. However, DRAK2 is autophosphorylated and it is possible that this band corresponds to the phosphorylated form. The fact that the detection of this band is blocked by DRAK2 peptide indicates that it probably is closely related to the DRAK2 protein.



ab8419 at 10µg/ml staining DRAK2 in Jurkat cells by ICC/IF

Immunocytochemistry/ Immunofluorescence - Anti-DRAK2 antibody (ab8419)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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