

Nur für Forschungszwecke

Phospho-Caspase 9 (Ser196) Rekombinanter Antikörper



Katalog-Nr.:80346-1-RR

Allgemeine Informationen

Katalog-Nr.: 80346-1-RR	GenBank-Zugangsnummer: BC002452	Reinigungsmethode: Protein-A-Reinigung
Größe: 100ul , Konzentration: 1000 µg/ml von842	GeneID (NCBI): 842	CloneNo.: 3P16
Nanodrop;	Vollständiger Name: caspase 9, apoptosis-related cysteine peptidase	Empfohlene Verdünnungen: WB 1:2000-1:10000
Wirt: Kaninchen	Berechnete Masse: 46 kDa	
Isotyp: IgG	Beobachtete Masse: 46 kDa, 35 kDa	

Anwendungen

Geprüfte Anwendungen:
WB, ELISA

Getestete Reaktivität:
Human, Maus

Positivkontrollen:

WB : NIH/3T3-Zellen, HEK-293-Zellen, Jurkat-Zellen,
Mit Calyculin A behandelte HEK-293-Zellen, mit
Calyculin A behandelte Jurkat-Zellen, mit Calyculin A
behandelte NIH/3T3-Zellen

Hintergrundinformationen

Caspase 9 also name as MCH6, APAF3, APAF-3, ICE-LAP6 and CASPASE-9c, is a member of the cysteine-aspartic acid protease (caspase) family. It's synthesized as a 46kDa precursor protein which can be cleaved into a 35kDa subunit and a 11kDa subunit. The phosphorylated type can be detected at 55kDa and 35kDa. It plays a central role in the mitochondrial or intrinsic apoptotic pathway that is engaged in response to many apoptotic stimuli. Once activated, caspase-9 cleaves and activates the effector caspases 3 and 7 to bring about apoptosis. It can be phosphorylated by PKB/AKT1 at Ser196, this modification will downregulate its activity and decrease apoptosis. Akt phosphorylation site found in human caspase 9 is absent in mouse caspase 9. It's reported that there is an increase in caspase 9 expression and activity in the hypoxic brain. Inhibition of Caspase 9 activity would render opportunity to treat neurological diseases such as stroke, neurodegenerative diseases or brain injury caused by hypoxia. (PMID: 19788417, PMID: 10529400, PMID: 9812896, PMID: 18840507) In recent years, the localization of caspase9 was a focus of interest. Beside its cytoplasmic distribution, a very extensive localization study was done on rat brain tissue, where caspase9 was found located predominantly in the nucleus and to a lesser extent in the cytoplasm [PMID: 15541731].

Lagerung

Lagerungsbedingungen:
Bei -20°C lagern.

Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

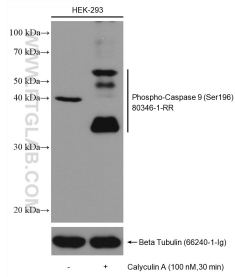
Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

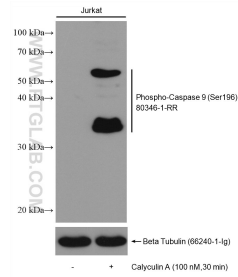
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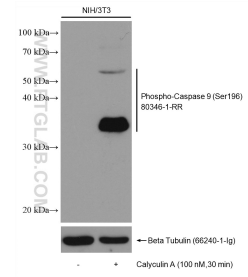
Ausgewählte Validierungsdaten



Non-treated HEK-293 and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80346-1-RR (Phospho-Caspase 9 (Ser196) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin antibody as loading control.



Non-treated Jurkat and Calyculin A treated Jurkat cells were subjected to SDS PAGE followed by western blot with 80346-1-RR (Phospho-Caspase 9 (Ser196) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin antibody as loading control.



Non-treated NIH/3T3 and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80346-1-RR (Phospho-Caspase 9 (Ser196) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin antibody as loading control.