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Caspase-9 (phospho Ser196) Polyclonal Antibody

Caspase 9 around the phosphorylation site of Ser196. AA range:162-211 Specificity Phospho-Caspase-9 (S196) Polyclonal Antibody detects endogenous levels of Caspase-9 protein only when phosphorylated af S196. Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000 IF 1:50-200 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms CASP9; MCH6; Caspase-9; CASP-9; Apoptotic protease Mch-6; Apoptotic protease-activating factor 3; APAF-3; ICE-like apoptotic protease 6; ICE-LAP6 Observed Band 46kD Cell Pathway nucleus, mitochondrion, cytosol, apoptosome, Tissue Specificity Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes. Function catalytic activity: Strict requirement for an Asp residue at position P1 and with a marked preference for His at position P2. It has a preferred cleavage sequence Leu-Gly-His-Asp-I-Xaa, function: Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates caspase-3, Proteolytically cleaves poly(ADP-ribose) polymerase (PARP), functionine lands activation as an ominant-negative inhibitor of caspase-9, inincrimations information: Caspase-9 entry, PTM: Cleavages at Asp-315 by granzyme B and a Asp-330 by caspase-9 entry, PTM: Cleavages at Asp-315 by granzyme B and a Asp-330 by caspase-9 entry, PTM: Cleavages at Asp-315 by granzyme B and a Asp-330 by caspase-9 entry, PTM: Cleavages at Asp-315 by granzyme B and a		
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Background

CASP9 encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. Caspase 9 can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. Caspase 9 is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants.

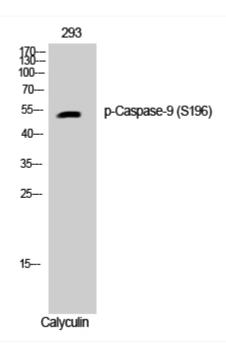
matters needing attention

Avoid repeated freezing and thawing!

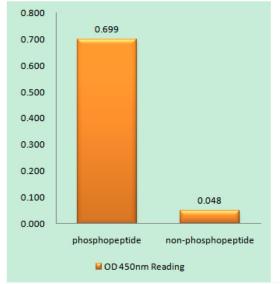
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of 293 cells using Phospho-Caspase-9 (S196) Polyclonal Antibody diluted at 1:1000



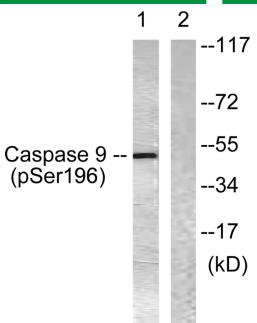
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Caspase 9 (Phospho-Ser196) Antibody



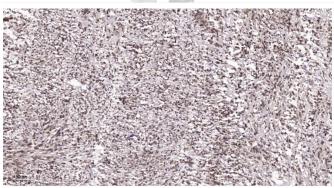
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Western blot analysis of lysates from 293 cells treated with Calyculin 50nM 30', using Caspase 9 (Phospho-Ser196) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).