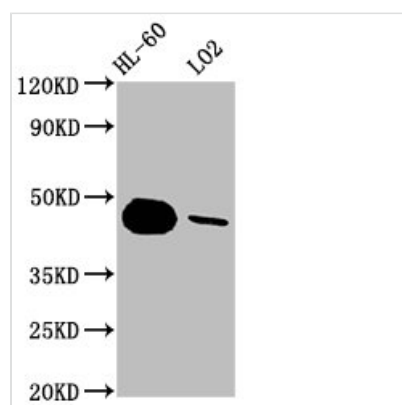




# CASP9 Antibody

<b>Product Code</b>	CSB-RA004555A0HU
<b>Abbreviation</b>	Caspase-9
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P55211
<b>Immunogen</b>	A synthesized peptide derived from human CASP9
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IF, FC; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200
<b>Relevance</b>	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. Promotes DNA damage-induced apoptosis in a ABL1/c-Abl-dependent manner. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Caspase-9, Apoptotic protease Mch-6, Apoptotic protease-activating factor 3, APAF-3, ICE-like apoptotic protease 6, ICE-LAP6, Caspase-9 subunit p35, Caspase-9 subunit p10, CASP9, MCH6
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cell Biology
<b>Gene Names</b>	CASP9
<b>Accession NO.</b>	2D5

## Image



### Western Blot

Positive WB detected in: HL-60 whole cell lysate, LO2 whole cell lysate

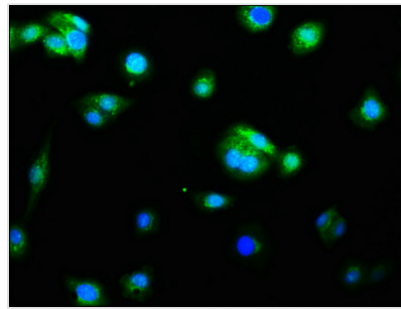
All lanes: CASP9 antibody at 1.8µg/ml

Secondary

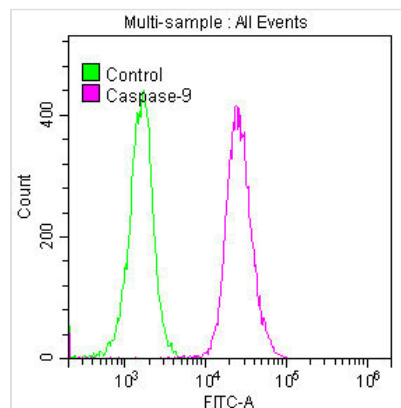
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 47, 31, 18, 37 KDa

Observed band size: 47 KDa



Immunofluorescence staining of HepG2 cells with CSB-RA004555A0HU at 1:60, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Overlay histogram showing K562 cells stained with CSB-RA004555A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

## Description

The CASP9 antibody is a recombinant monoclonal antibody matched isotype control by rabbit IgG. Its production process includes the cloning of the human CASP9 DNA gene into the vector and the transfection of the clones into the cell line for in vitro expression. This CASP9 antibody can recognize human CASP9 protein. It has been purified using affinity-chromatography and been tested for use in ELISA, WB, IF, and FC applications.

CASP9 is an initiator caspase critical to the apoptotic pathway found in many tissues. Correct CASP9 function is required for apoptosis, leading to the normal development of the central nervous system (CNS). Dysfunction of CASP9 causes abnormal tissue development, thus leading to aberrant function, diseases and premature death.