



Caspase-2 Polyclonal Antibody

Catalog No	YP-Ab-00344
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	CASP2
Immunogen	The antiserum was produced against synthesized peptide derived from human Caspase 2. AA range:123-172
Specificity	Caspase-2 Polyclonal Antibody detects endogenous levels of Caspase-2 protein.
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: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CASP2;Caspase 2;CASP 2;CASP-2;Caspase 2/p18;Caspase-2;Caspase2;ICH1; NEDD2;Neural precursor cell expressed developmentally down-regulated protein 2;NEDD-2;Protease ICH-1
Observed Band	51kD
Calculated Molecular Weight	51kD
Cell Pathway	nucleus,cytoplasm,mitochondrion,cytosol,membrane,
Tissue Specificity	Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle.
Function	alternative products:Isoforms differ in the N- and C-termini,catalytic activity:Strict requirement for an Asp residue at P1, with 316-asg being essential for proteolytic activity and has a preferred cleavage sequence of Val-Asp-Val-Ala-Asp-[-],function:Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival.,PTM:The mature protease can process its own propeptide, but not that of other caspases., similarity:Belongs to the peptidase C14A family.,similarity:Contains 1 CARD



domain.,subunit:Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a p18 subunit and a p12 subunit. Interacts with LRDD.,tissue specificity:Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and b

Background

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Caspases mediate cellular apoptosis through the proteolytic cleavage of specific protein substrates. The encoded protein may function in stress-induced cell death pathways, cell cycle maintenance, and the suppression of tumorigenesis. Increased expression of this gene may play a role in neurodegenerative disorders including Alzheimer's disease, Huntington's disease and temporal lobe epilepsy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011],

matters needing attention

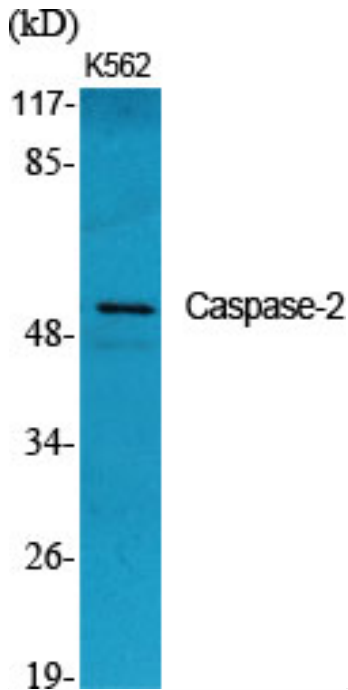
Avoid repeated freezing and thawing!

Usage suggestions

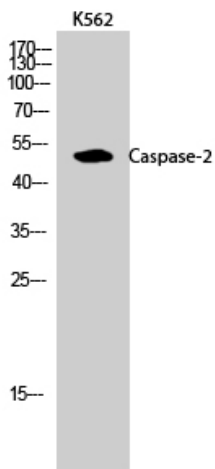
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



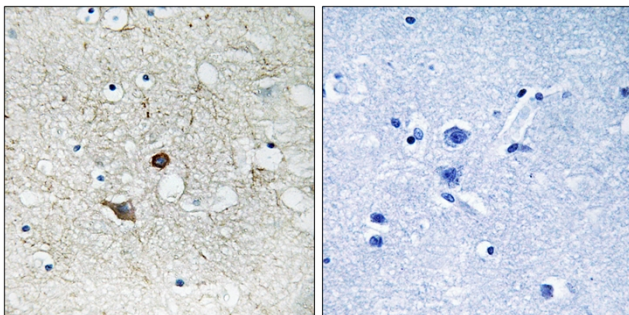
Products Images



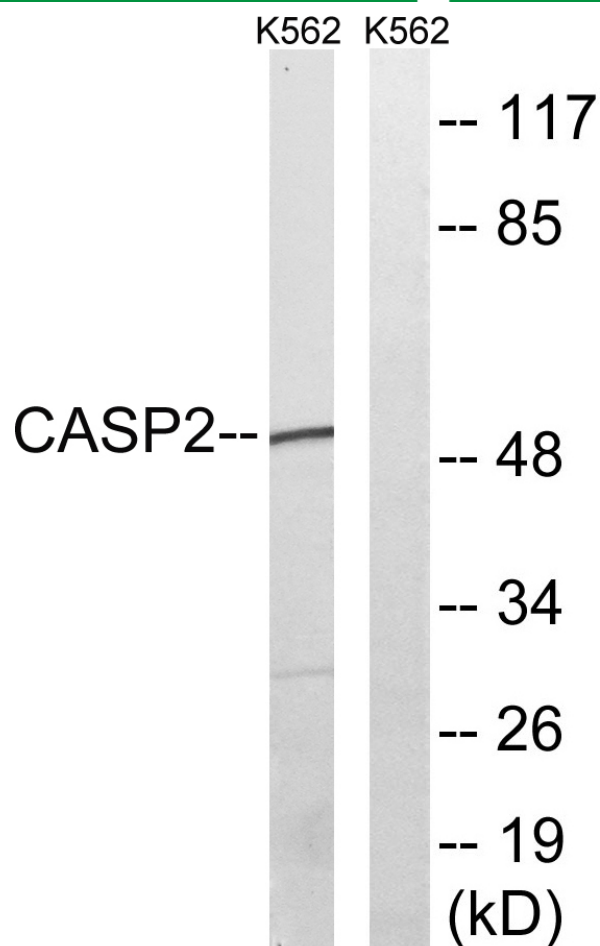
Western Blot analysis of various cells using Caspase-2 Polyclonal Antibody



Western Blot analysis of K562 cells using Caspase-2 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Caspase 2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562, using Caspase 2 Antibody. The lane on the right is blocked with the synthesized peptide.