Caspase 2 (p13, Cleaved-Gly334) mouse mAb

Catalog No	YP-mAb-00036
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	CASP2 ICH1 NEDD2
Protein Name	Caspase2
Immunogen	Synthesized peptide derived from human Caspase 2 (p13, Cleaved-Gly334)
Specificity	This antibody detects endogenous levels of Human Caspase 2 (p13, Cleaved-Gly334, protein was cleaved amino acid sequence between333-334)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Caspase-2 (CASP-2;EC 3.4.22.55;Neural precursor cell expressed developmentally down-regulated protein 2;NEDD-2;Protease ICH-1) [Cleaved into: Caspase-2 subunit p18; Caspase-2 subunit p13; Caspase-2 subunit p12]
Observed Band	13 50kD
Cell Pathway	
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	proteolysis, apoptosis, anti-apoptosis, induction of apoptosis, cell death, induction of apoptosis by extracellular signals, regulation of cell death, positive regulation of cell death, programmed cell death, induction of programmed cell death, death, protein processing, regulation of apoptosis, positive regulation of apoptosis, negative regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death, negative regulation of programmed cell death, protein maturation, protein maturation by peptide bond cleavage, negative regulation of cell death,
Background	alternative products:Isoforms differ in the N- and C-termini,catalytic activity:Strict requirement for an Asp residue at P1, with 316-asp 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 brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle.,
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.

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