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# Caspase-8 (2G12) Mouse mAb

CatalogNo: YM3377 Orthogonal Validated 💽

# Key Features

Host Species

Mouse

Reactivity

Human,Mouse,Rat

ApplicationsWB,IF,IHC

MW • 43,57kD (Observed)

#### **Recommended Dilution Ratios**

WB 1:1000-2000 IHC 1:200-500 IF 1:200

#### **Storage**

Storage\*-15°C to -25°C/1 year(Do not lower than -25°C)FormulationPBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

# **Basic Information**

Clonality Monoclonal

Clone Number 2G12

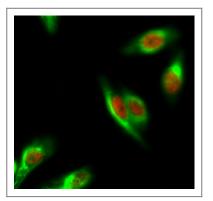
#### Immunogen Information

ImmunogenRecombinant Protein of Caspase-8SpecificityThe antibody detects endogenous Caspase-8 protein.

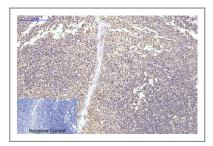
# Target Information

Gene name	CASP8 MCH5		
Protein Name	Caspase8		
	Organism	Gene ID	UniProt ID
	Human	<u>841;</u>	<u>Q14790;</u>
	Mouse	<u>12370;</u>	<u>089110;</u>
Cellular Localization	Cytoplasm . Nucleus .		
Tissue specificity	Isoform 1, isoform 5 and isoform 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes, spleen, thymus and liver. Barely detectable in brain, testis and skeletal muscle.		
Function	Drain, testis and skeletal muscle. Catalytic activity:Strict requirement for Asp at position P1 and has a preferred cleavage sequence of (Leu/Asp/Val)-Glu-Thr-Asp-I-(Gly/Ser/Ala), Disease:Defects in CASP8 are the cause of caspase-8 deficiency (CASP8D) [MIM:607271]. CASP8D is a disorder resembling autoimmune lymphoproliferative syndrome (ALPS). It is characterized by lymphadenopathy, splenomegaly, and defective CD95-induced apoptosis of peripheral blood lymphocytes (PBLS). It leads to defects in activation of T-lymphocytes, B-lymphocytes, and natural killer cells leading to immunodeficiency characterized by recurrent sinopulmonary and herpes simplex virus infections and poor responses to immunization.,Domain:Isoform 9 contains a N-terminal extension that is required for interaction with the BCAP31 complex.,Function:Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death- inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-I-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoforms 5, 6, 7 and 8 lack the catalytic site and may interfere with the pro-apoptotic cativity of the complex.,online information:CASP8 mutation db,polymorphism:Genetic vaiations in CASP8 are associated with reduced risk of lung cancer [MIM:211980] in a population of Han Chinese subjects. Genetic vaiations are also associated with decreased risk of cancer of various other forms including esophageal, gastric, colorectal, cervical, and breast, acting in an allele dose-dependent manner.,PTM:Generation of the subunits requires association with the death-i		

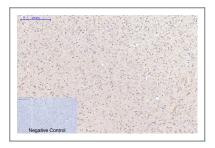
# Validation Data



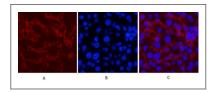
Immunofluorescence analysis of Hela cell. 1,ERα Polyclonal Antibody(red) was diluted at 1:200(4° overnight). Caspase-8 Monoclonal Antibody(2G12)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



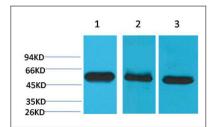
Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1,Caspase-8 Monoclonal Antibody(2G12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-brain tissue. 1,Caspase-8 Monoclonal Antibody(2G12) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Mouse-liver tissue. 1,Caspase-8 Monoclonal Antibody(2G12)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) Hela, 2) Mouse Brain Tissue, 3) Rat Brain Tissue using Caspase-8 Monoclonal Antibody.

# Contact information

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Please scan the QR code to access additional product information: Caspase-8 (2G12) Mouse mAb For Research Use Only. Not for Use in Diagnostic Procedures.

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