



Anti-CASP8 monoclonal antibody, clone 2H23 (DCABH-14868)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in 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-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex.
Specificity	Recognizes the p18 subunit of mouse caspase-8. Detects bands of ~55 KDa (full length caspase-8) and ~18 KDa (apoptosis-induced cleavage fragment) by Western blot. Does not cross-react with human caspase-8.
Immunogen	Recombinant protein corresponding to p18 subunit of mouse Casp8.
Isotype	IgG1
Source/Host	Rat
Species Reactivity	Mouse
Clone	2H23
Conjugate	Unconjugated
Applications	Western Blot; Immunocytochemistry; ELISA; Flow Cytometry

Format	Liquid
Buffer	In PBS (0.02% sodium azide)
Preservative	0.02% Sodium Azide
Storage	Store at 4°C For long term storage store at -20°C Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	Casp8 caspase 8 [Mus musculus]
Official Symbol	Casp8
Synonyms	CASP8; caspase 8; caspase-8; Fas-linked ICE-like protease; MACH; Mch5; FLICE; CASP-8;
Entrez Gene ID	12370
Protein Refseq	NP_001073595
UniProt ID	O89110
Pathway	Activation of Pro-Caspase 8, organism-specific biosystem; Activation, myristoylation of BID and translocation to mitochondria, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Androgen
Function	cysteine-type endopeptidase activity; cysteine-type peptidase activity; hydrolase activity; identical protein binding; peptidase activity; peptidase activity; protein binding; tumor necrosis factor receptor binding;