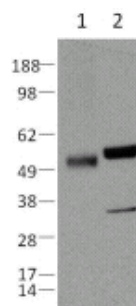


Anti-Human Caspase 8 Purified

Catalog Number: 14-9934

Also Known As: Caspase8

RUO: For Research Use Only



Jurkat cell lysates nonreduced (lane 1) or reduced (lane 2) were resolved by SDS-PAGE then immunoblotted with 2 µg/ml of Anti-Human Caspase 8 Purified. Bands were visualized using Anti-Rat IgG HRP.

Product Information

Contents: Anti-Human Caspase 8 Purified

REF Catalog Number: 14-9934

Clone: 1H10

Concentration: 0.5 mg/ml

Host/Isotype: Rat IgG2a

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The monoclonal antibody 1H10 recognizes human Caspase-8 also known as FLICE and MACH, a member of the cysteine-requiring aspartate protease family. Caspase-8 is an upstream caspase responsible for Fas and TNF-α mediated apoptosis. After activation of the Fas or TNF receptors by their ligands, the adaptor molecule FADD binds to the receptor and recruits caspase-8 to the membrane. The formation of this complex induces the cleavage and activation of caspase-8. The active form of caspase-8, made of a heterotetramer of p18 and p10, is released in the cytoplasm and activates downstream apoptotic proteases (caspase-3, -4, -6, -7, -9 and -10). Several (> 8) isoforms have been identified: 3 different pro-forms called Caspase-8a (55kDa), Caspase-8b (53kDa), and Caspase-8L which is procaspase-8 with an additional N-terminal extension of 59 aa.

The 1H10 antibody recognizes the p55 and p53 proforms in addition to the p43 and p18 cleaved forms. Under reducing conditions, an additional band (possibly non-specific) around 35kDa may be present. Under nonreducing conditions, this band is absent.

Applications Reported

This 1H10 antibody has been reported for use in immunoblotting (WB).

Applications Tested

This 1H10 antibody has been tested by immunoblot analysis of cell lines. This can be used at 1-5 µg per ml. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Sánchez I, Xu CJ, Juo P, Kakizaka A, Blenis J, Yuan J. Caspase-8 is required for cell death induced by expanded polyglutamine repeats. *Neuron*. 1999 Mar;22(3):623-33. (1H10, mAb generation, PubMed)

Li H, Zhu H, Xu CJ, Yuan J. Cleavage of BID by caspase 8 mediates the mitochondrial damage in the Fas pathway of apoptosis. *Cell*. 1998 Aug 21;94(4):491-501. (1H10, WB PubMed)

Related Products

14-4321 Rat IgG2a K Isotype Control Purified

14-9944 Anti-Human Bid Purified (1H11)

