

Mouse Monoclonal Antibody to TRAF2
Purified Mouse Monoclonal Antibody
Catalog # AO2340a**Specification**

Mouse Monoclonal Antibody to TRAF2 - Product Information

| | |
|-------------------|------------------------|
| Application | E, WB, FC, ICC |
| Primary Accession | O12933 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | Mouse IgG1 |
| Calculated MW | 55.8KD KDa |

Description

The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins associate with, and mediate the signal transduction from members of the TNF receptor superfamily. This protein directly interacts with TNF receptors, and forms a heterodimeric complex with TRAF1. This protein is required for TNF-alpha-mediated activation of MAPK8/JNK and NF-kappaB. The protein complex formed by this protein and TRAF1 interacts with the inhibitor-of-apoptosis proteins (IAPs), and functions as a mediator of the anti-apoptotic signals from TNF receptors. The interaction of this protein with TRADD, a TNF receptor associated apoptotic signal transducer, ensures the recruitment of IAPs for the direct inhibition of caspase activation. BIRC2/c-IAP1, an apoptosis inhibitor possessing ubiquitin ligase activity, can ubiquitinate and induce the degradation of this protein, and thus potentiate TNF-induced apoptosis. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of only one transcript has been determined.;

Immunogen

Purified recombinant fragment of human TRAF2 (AA: 39-188) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

Application Note

ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Mouse Monoclonal Antibody to TRAF2 - Additional Information

Gene ID 7186

Other Names

TRAP; TRAP3; MGC:45012

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Monoclonal Antibody to TRAF2 is for research use only and not for use in diagnostic or

therapeutic procedures.

Mouse Monoclonal Antibody to TRAF2 - Protein Information

Name TRAF2

Synonyms TRAP3

Function

Regulates activation of NF-kappa-B and JNK and plays a central role in the regulation of cell survival and apoptosis (PubMed: [22212761](http://www.uniprot.org/citations/22212761)). Required for normal antibody isotype switching from IgM to IgG. Has E3 ubiquitin-protein ligase activity and promotes 'Lys- 63'-linked ubiquitination of target proteins, such as BIRC3, RIPK1 and TICAM1. Is an essential constituent of several E3 ubiquitin-protein ligase complexes, where it promotes the ubiquitination of target proteins by bringing them into contact with other E3 ubiquitin ligases. Regulates BIRC2 and BIRC3 protein levels by inhibiting their autoubiquitination and subsequent degradation; this does not depend on the TRAF2 RING-type zinc finger domain. Plays a role in mediating activation of NF-kappa-B by EIF2AK2/PKR. In complex with BIRC2 or BIRC3, promotes ubiquitination of IKBKE.

Cellular Location

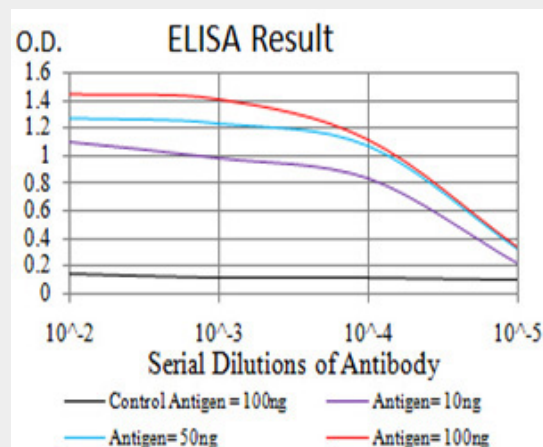
Cytoplasm

Mouse Monoclonal Antibody to TRAF2 - Protocols

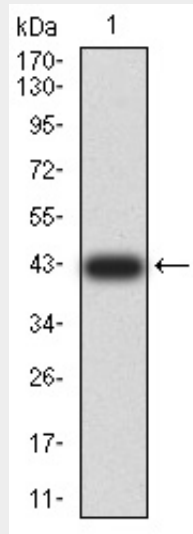
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

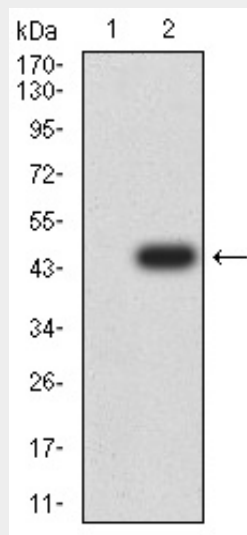
Mouse Monoclonal Antibody to TRAF2 - Images



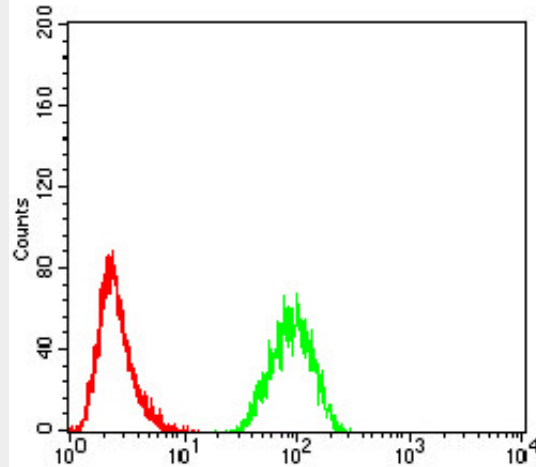
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



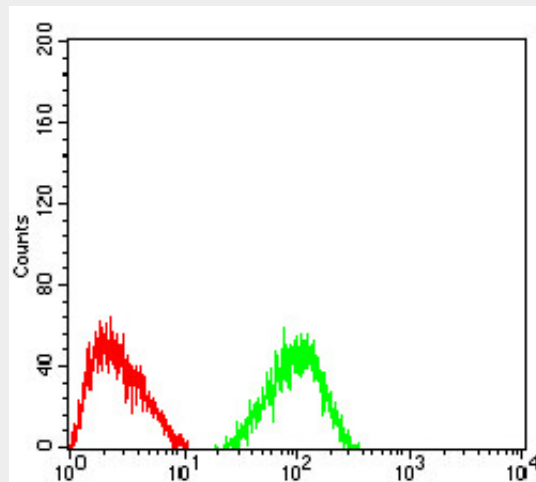
Western blot analysis using TRAF2 mAb against human TRAF2 (AA: 39-188) recombinant protein. (Expected MW is 42.5 kDa)



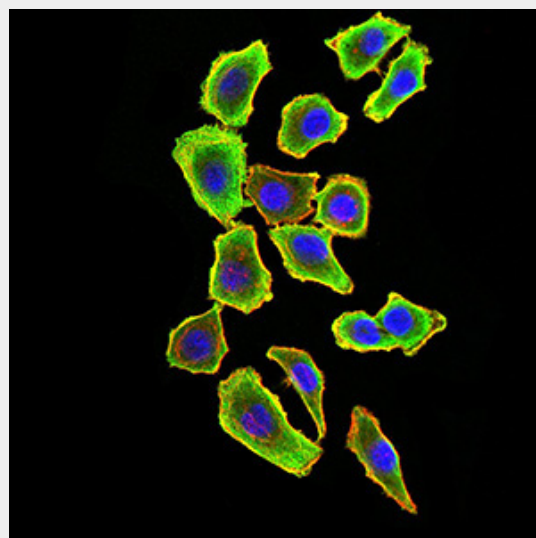
Western blot analysis using TRAF2 mAb against HEK293 (1) and TRAF2 (AA: 39-188)-hIgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of HeLa cells using TRAF2 mouse mAb (green) and negative control (red).

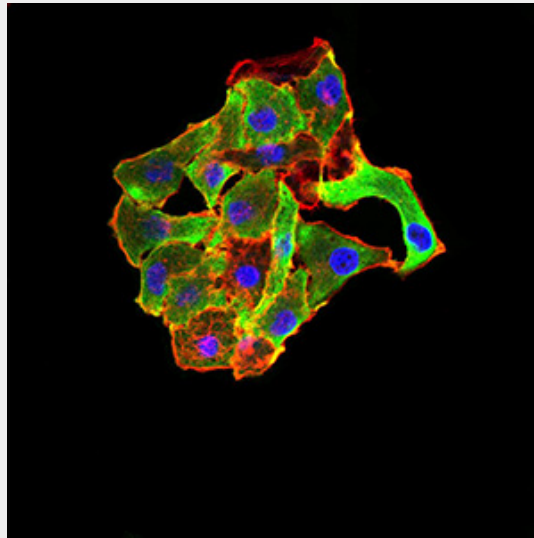


Flow cytometric analysis of HepG2 cells using TRAF2 mouse mAb (green) and negative control (red).



Immunofluorescence analysis of HL-7702 cells using TRAF2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

Secondary antibody from Fisher



Immunofluorescence analysis of MCF-7 cells using TRAF2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher

Mouse Monoclonal Antibody to TRAF2 - References

1.J Virol. 2014 Apr;88(7):3664-77. ; 2.Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi. 2011 Nov;27(11):1176-9.;