10320 Camino Santa Fe, Suite G
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TRAP Antibody
Catalog # ASC11500

Specification

TRAP Antibody - Product Information

Application	**WB, IF**
Primary Accession	P13686
Other Accession	NP_001104505, 161377453
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**TRAP antibody can be used for detection of TRAP by Western blot at 1 µg/mL. For immunofluorescence start at 20 µg/mL.**

TRAP Antibody - Additional Information

Gene ID	**54**

Target/Specificity
ACP5;

Reconstitution & Storage
TRAP antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
TRAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TRAP Antibody - Protein Information

Name ACP5

Function
Involved in osteopontin/bone sialoprotein dephosphorylation. Its expression seems to increase in certain pathological states such as Gaucher and Hodgkin diseases, the hairy cell, the B-cell, and the T- cell leukemias.

Cellular Location
Lysosome.

TRAP Antibody - Protocols

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

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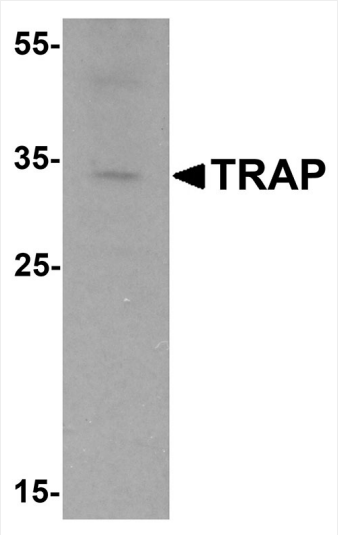
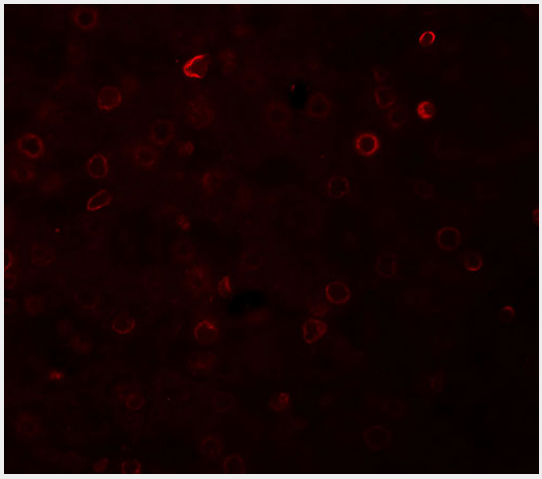
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRAP Antibody - Images



Western blot analysis of TRAP in mouse brain tissue lysate with TRAP antibody at 1 µg/mL.



Immunofluorescence of TRAP in human liver tissue with TRAP antibody at 20 µg/mL.

TRAP Antibody - Background

TRAP Antibody: TRAP, also known as uteroferrin, is an iron containing, glycosylated, acid phosphatase. It is the most basic of the acid phosphatases and is the only form not inhibited by L(+)-tartrate. Along with the related protein ACP2, TRAP mediates the removal of mannose 6-phosphate residues from proteins targeted to lysosomes. TRAP is present in brain at low levels, but is expressed at a much higher level in liver.

TRAP Antibody - References

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Baumbach GA, Saunders PT, Bazer FW, et al. Uteroferrin has N-apsaragine-linked high mannose-type oligosaccharaides that contain mannose 6-phosphate. Proc. Natl. Acad. Sci. USA 1984; 81:2985-9.
Sun P, Sleat DE, Lecocq M, et al. Acid phosphatase 5 is responsible for removing the mannose 6-phosphate recognition marker from lysosomal proteins. Proc. Natl. Acad. Sci. USA 2004; 105:16590-5.
Makypridi G, Damme M, Muller-Loennies S, et al. Mannose 6 dephosphorylation of lysosomal proteins mediated by acid phosphatases Acp2 and Acp5. Mol. Cell Biol. 2012; 32:774-82.