

**TRAP Antibody**  
Catalog # ASC11500**Specification**

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**TRAP Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P13686</a>
Other Accession	<a href="#">NP_001104505</a> , <a href="#">161377453</a>
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°C for three months and -20°C, 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**

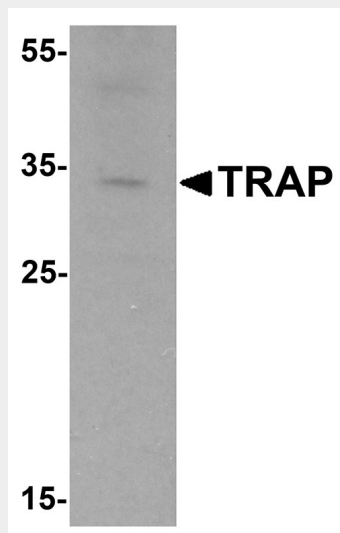
Lysosome.

**TRAP Antibody - Protocols**

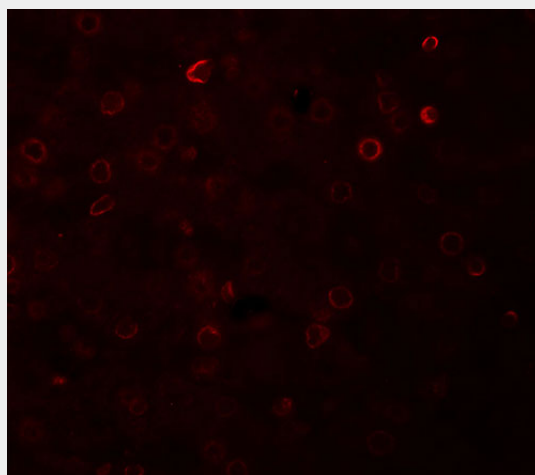
Provided below are standard protocols that you may find useful for product applications.

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

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.