

TRAP Antibody

Catalog # ASC11500

Product Information

Application WB, IF, E **Primary Accession** P13686

Other Accession NP_001104505, 161377453

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 36599
Concentration (mg/ml) 1 mg/mL
Conjugate Unconjugated

Application NotesTRAP antibody can be used for detection of TRAP by Western blot at 1 ½/mL.

For immunofluorescence start at 20 \(\textstyle g/mL. \)

Additional Information

Gene ID 54

Other Names Tartrate-resistant acid phosphatase type 5, TR-AP, 3.1.3.2, Tartrate-resistant

acid ATPase, TrATPase, Type 5 acid phosphatase, ACP5

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.

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.

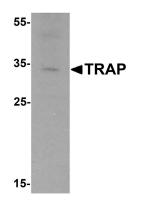
Background

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.

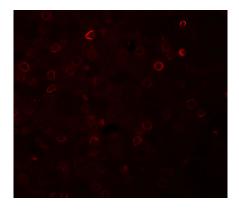
References

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.

Images



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



Immunofluorescence of TRAP in human liver tissue with TRAP antibody at 20 $\mu g/mL$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.