

Novocastra™ Lyophilized Mouse Monoclonal Antibody Tartrate-Resistant Acid Phosphatase

Product Code: NCL-TRAP

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human tartrate-resistant acid phosphatase.
Clone	26E5
Ig Class	IgG2b
Antigen Used for Immunizations	Prokaryotic recombinant fusion protein corresponding to the N-terminal portion of the TRAP molecule.
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
Preparation	Lyophilized tissue culture supernatant containing sodium azide. Reconstitute with the volume of sterile distilled water indicated on the vial label.
Effective on Frozen Tissue	No
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	Immunohistochemistry on paraffin sections. Heat Induced Epitope Retrieval (HIER): Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH6. Suggested dilution: 1:300 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. Visualization: Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems Web site, www.LeicaBiosystems.com The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.
Positive Controls	Immunohistochemistry: Tonsil
Staining Pattern	Cytoplasmic
Storage and Stability	Store unopened antibody at 2–8 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. Do not use after expiration date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 2–8 °C. For long term storage, it is recommended that aliquots of the reconstituted antibody are stored frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use. Return to 2–8 °C immediately after use. Storage conditions other than those specified above must be verified by the user.
Warnings and Precautions	This reagent has been prepared from the supernatant of cell culture confirm. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from www.LeicaBiosystems.com





BIO SYSTEMS

General Overview

Tartrate-resistant acid phosphatase (TRAP) is a basic, iron-binding protein with high activity towards phosphoproteins, ATP and 4-nitrophenyl phosphate. This isoenzyme has been detected in human alveolar macrophages, osteoclasts, spleen and liver. TRAP expression has also been reported in placental decidual cells, syncytiotrophoblasts and some macrophages distributed throughout maternal and embryonic tissues.

General References

- Fleckenstein E and Drexler H G. *Leukemia*. 11: 10–13 (1997).
- Hoyer J D, Li C-Y, Yam L T, et al.. *American Journal of Clinical Pathology*. 108: 308–315 (1997).
- Fleckenstein E, Dirks W, Dehmel U, et al.. *Leukemia*. 10: 637–643 (1996).
- Halleen J, Hentunen T A, Hellman J, et al.. *Journal of Bone and Mineral Research*. 11 (10): 1444–1452 (1996).
- Lord D K, Cross N C P, Bevilacqua M A, et al.. *European Journal of Biochemistry*. 189: 287–293 (1990).
- Stepan J J, Lau K H W, Mohan S, et al.. *Biochemical and Biophysical Research Communications*. 168 (2): 792–800 (1990).
- Vincent J B and Averill B A. *FASEB Journal*. 4: 3009–3014 (1990).