
Monoclonal Antibody to Human Thromboxane Synthase

Monoclonal antibody Tü 300 is a useful marker for the detection of native thromboxane synthase in smears, isolated cells, human tissue sections, and for affinity purification of the enzyme. In combination with the markers for MRP8/14 (product T-1023), CD163 (product T-1060) and the macrophage marker 25F9 (product T-1016), Tü-300 enables a more precise characterization of inflammatory processes in injured tissues, or *in vitro* cell-cell interaction studies.

Product Number:	T-1202 (Lot 05PO9208)
Clone:	Tü-300
Host species, isotype:	Mouse IgG2a
Quantity:	200µg
Format:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been reported to work in ELISA. Approximate working dilution for IHC: Frozen sections: 2µg/ml (1:200) Paraffin sections: not tested. Optimal dilutions should be determined by the end user. Suggested positive control: Human liver, tonsil. Please see www.bma.ch for protocols and general information.
Immunogen:	Purified human platelet thromboxane synthase.
Antigen, epitope:	The antigen has a molecular weight of 58kDa, epitope not further characterized.

Antigen distribution:**Isolated cells:** thrombocytes, monocytes.**Tissue sections:** Thromboxane synthase is predominantly produced by macrophages or antigen presenting cells of the myelo-monocytic lineage as shown below. Endothelial cells of placenta and epithelial cells in tonsils and bronchi also express this enzyme.***Distribution of thromboxane synthase in human tissues***

Tissue	Immunostained cells
Tonsils	Macrophages; Crypt epithelium
Spleen	Macrophages; Dendritic cells
Thymus	Macrophages; Dendritic cells
Lung	Alveolar macrophages
Bronchi	Monocytic cells; Bronchial Epithelium
Liver	Kupffer cells
Kidney	Monocytic cells; Mesangial cells
Skin	Langerhans cells
Small intestine	Macrophages
Connective tissue	Histiocytes
Placenta	Hofbauer cells; Endothelial cells
Umbilical cord	Dendritic cells
Uterus	Dendritic cells

from Nuesing et al. 1990

Specificity:**Human:** positive.**Other species:** negative in rat.**Selected references**Nuesing, R. et al.: Production and Characterization of Polyclonal and Monoclonal Antibodies Against Human Thromboxane Synthase. *Blood*: 76(1), 80-85 (1990).Nuesing, R. et al.: Immunohistochemical localization of thromboxane synthase in human tissues. *Eicosanoids*: 3, 53-58 (1990).Nuesing, R. & Ullrich, V.: Immunoquantitation of thromboxane synthase in human tissues. *Eicosanoids*: 3, 175-180 (1990).Nuesing, R. et al.: Immunoaffinity Purification of Human Thromboxane Synthase. *Arch.Biochem.Biophys.*: 280(2), 325-330 (1990).

For in vitro research only. Caution: this product contains thimerosal, a poisonous and hazardous substance.