



## Peninsula Laboratories, LLC

A Member of the Bachem Group

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## Biotinylated Monoclonal Antibody to Human TXS

### 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.

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|                               |                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Number:</b>        | T-1206                                                                                                                                                                                                                                                                                                                         |
| <b>Clone:</b>                 | Tü-300                                                                                                                                                                                                                                                                                                                         |
| <b>Host species, isotype:</b> | Mouse IgG2a                                                                                                                                                                                                                                                                                                                    |
| <b>Quantity:</b>              | 150µg                                                                                                                                                                                                                                                                                                                          |
| <b>Format:</b>                | Affinity purified, biotinylated, lyophilized<br><br>Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.3mg/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.                                                |
| <b>Stability:</b>             | Original vial: 1 year at 4° - 8°C<br><br>Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.                                                                                                                                                                                             |
| <b>Applications:</b>          | Tested for immunohistochemistry (IHC); has been reported to work in ELISA.<br><br><b>Approximate working dilution for IHC:</b><br>Frozen sections: 2µg/ml (1:100 - 1:200)<br>Paraffin sections: not tested.<br><br>Optimal dilutions should be determined by the end user.<br>Suggested positive control: Human liver, tonsil. |
| <b>Immunogen:</b>             | Purified human platelet thromboxane synthase.                                                                                                                                                                                                                                                                                  |
| <b>Antigen, epitope:</b>      | The antigen has a molecular weight of 58kDa, epitope not further characterized.                                                                                                                                                                                                                                                |



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**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.