

Anti-11-Dehydro TXB₂ Antibody

rev 11/20

CATALOG NO.: A2165-100 (100 dtn)

A2165-500 (500 dtn)

*dtn: Determination, where 1 dtn is the amount of reagent used per well

BACKGROUND DESCRIPTION: Thromboxane A₂ (TxA₂) is a prostaglandin metabolite that is metabolically derived from arachidonic acid (AA) via the action of cyclooxygenases (COX1 in platelets and COX2 in monocytes and endothelial cells). TxA₂ is a vasoactive agent that regulates blood flow and blood pressure. Additionally, it acts as a pro-thrombotic agent that promotes the activation and aggregation of platelets. However, TxA₂ is highly unstable with a short half-life (20-30 secs). It is readily converted to a stable metabolite thromboxane B₂, which further undergoes dehydrogenation to form 11-dehydro thromboxane B₂ (11dhTxB₂). 11dhTxB₂ is excreted in urine and has a longer half-life than TxA₂. The metabolite is unaffected by the ex vivo platelet activation and other pre-analytical variables and hence is a valid biomarker to determine platelet activity. 11dhTxB₂ is found to be elevated in multiple atherothrombotic diseases. Additionally, an elevated level of 11dhTxB₂ in urine indicates aspirin resistance in patients receiving antiplatelet aspirin therapy.

ALTERNATE NAMES: 11-Dehydro-thromboxane B₂, 11-Dehydro-txb₂, 11-dehydrothromboxane B₂, 11-Keto-thromboxane B₂, 11dhTxB₂ antibody

ANTIBODY TYPE: Mouse Monoclonal

ISOTYPE: IgG1

SOURCE: CHO cells

PURIFICATION: Protein A purified

PURITY: > 98% by SEC-HPLC

FORM: Liquid

FORMULATION: In 500 mM Diethanolamine, 1.0 M NaCl, 10 mM EDTA, 1% BSA, pH 8.7

STORAGE CONDITIONS: Store at -80°C

APPLICATIONS AND USAGE: The monoclonal antibody has been validated using human urine sample in 11-Dehydrothromboxane B₂ ELISA Kit (BioVision Catalog# E4900-100)

This information is only intended as a guide. The optimal dilutions must be determined by the user

RELATED PRODUCTS:

Arachidonic Acid (AA) ELISA Kit (E4602)

Thromboxane A₂ ELISA Kit (E4791)

11-Dehydrothromboxane B₂ ELISA Kit (E4900)

PicoProbe™ 15-PGDH Activity Assay Kit (Fluorometric) (K562)

Arachidonic Acid (1505)

FOR RESEARCH USE ONLY! Not to be used on humans.