

Description

Thromboxane B₂ (TXB₂) is a stable hydrolyzed product of unstable TXA₂ which is derived from PGH₂. PGH₂ is synthesized from arachidonic acid through the cyclooxygenase pathway. It is a major product following platelet aggregation induced by a variety of agents such as thrombin and collagen. It is produced not only in platelets, but also in other cell types such as fibroblasts and macrophages. Quantitation of thromboxane formation can be made by determining the level of TXB₂.

Kit Contents

- TXB₂ Antibody-Coated microplate (96 wells)
- TXB₂ Standard
- TXB₂ Enzyme Conjugate (HRP)
- K-Blue Substrate (TMB)
- EIA Buffer
- Wash Buffer (10x)
- Extraction Buffer (5x)
- Instruction Booklet

Cross-reactivity	
Thromboxane B ₂	100.00%
2,3-dinor-Thromboxane B ₂	30.0%
Prostaglandin D ₂	1.21%
Prostaglandin E ₂	0.08%
11-dehydro-Thromboxane B ₂	0.07%
Prostaglandin F _{2α}	0.06%
6-keto-Prostaglandin F _{1α}	0.05%
Prostaglandin F _{1α}	0.02%
Arachidonic Acid	<0.01%
Leukotriene B ₄	<0.01%
Prostaglandin A ₂	<0.01%
Prostaglandin B ₂	<0.01%
13,14-dihydro-15-keto-Prostaglandin F _{2α}	<0.01%

Specifications	
Sensitivity:	
80% B/B ₀	0.009 ng/mL
50% B/B ₀	0.04 ng/mL
Assay Range	0.004 – 0.4 ng/mL
Inter-Assay CV.....	≤10%
Intra-Assay CV	≤10%
Size	96 well microplate
Assay Sample Size	50 µL
Total Assay Incubation Time	1.5 hours
Wavelength	650 nm, 450 nm with acid stop
Storage Conditions.....	4°C
Antibody	Polyclonal, Rabbit

Research use only