

## Anti-PTGEs/Prostaglandin E Synthase Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,GuineaPig)
Molecular Weight:	Theoretical: 17 kDa. Actual: 18 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	Sample: JurkaT (Human) Cell Lysate at 30 µg Primary: Anti-PTGEs (TMAB-11900) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 18 kD
Application:	WB
Recommended	WB: 1:500-2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human PTGEs
Antigen Species:	Human
Gene ID:	9536
Uniprot ID:	O14684

## Research Background

Prostaglandin E synthase catalyses conversion of COX derived PGH<sub>2</sub> to PGE<sub>2</sub>. It is a member of the MAPEG family. It may contribute to the pathogenesis of collagen induced arthritis and mediate acute pain during inflammatory responses.

The protein encoded by this gene is a glutathione-dependent prostaglandin E synthase. The expression of this gene has been shown to be induced by proinflammatory cytokine interleukin 1 beta (IL1B). Its expression can also be induced by tumor suppressor protein TP53, and may be involved in TP53 induced apoptosis. Knockout studies in mice suggest that this gene may contribute to the pathogenesis of collagen-induced arthritis and mediate acute pain during inflammatory responses.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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