bs-1880R **[Primary Antibody]**

PTGEs/Prostaglandin E Synthase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9536 **SWISS:** O14684

Target: PTGEs/Prostaglandin E Synthase

Immunogen: KLH conjugated synthetic peptide derived from human PTGEs: 85-152/152.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Prostaglandin E synthase catalyses conversion of COX derived PGH2 to PGE2. 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.

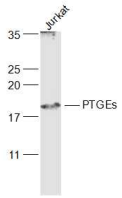
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, GuineaPig)

Predicted MW.: 17 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Jurkat(Human) Cell Lysate at 30 ug Primary: Anti-PTGEs (bs-1880R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 18 kD

SELECTED CITATIONS

- **[IF=25.606]** Zhou, Lei. et al. Group 3 innate lymphoid cells produce the growth factor HB-EGF to protect the intestine from TNF-mediated inflammation. Nat Immunol. 2022 Jan;23(2):251-261 FCM ;Human. 35102343
- **[IF=5.9]** Yue Song. et al. Effects of low-frequency and high-frequency electroacupuncture pretreatment on the COX-2/mPGES-1/PGE2 pathway in a rat model of cold-coagulation dysmenorrhea. FRONT IMMUNOL. 2025 Jun;16: WB ;Rat. 40534889