

## DESCRIPTION

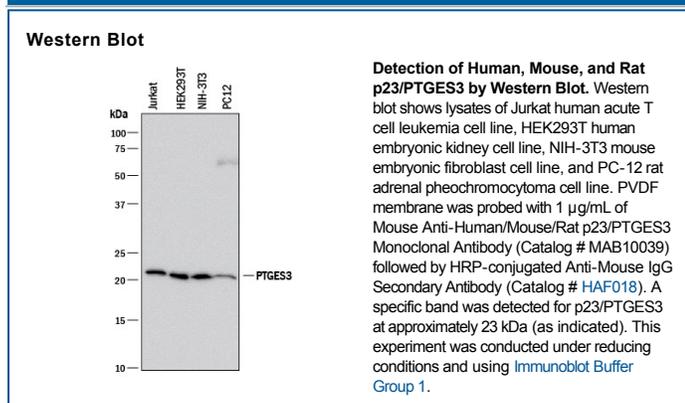
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human p23/PTGES3 in direct ELISAs. Detects human, mouse, and rat p23/PTGES3 in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 998320
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant Human p23/PTGES3 Gln21-Glu160 Accession # Q15185
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Prostaglandin E Synthase 3 (also known as Cytosolic prostaglandin E2 synthase, HSP90 co-chaperone, Progesterone receptor complex p23, Telomerase-binding protein p23, or p23) is a glutathione-dependent enzyme found in the cyclooxygenase-1-mediated PGE2 biosynthetic pathway. This protein is highly conserved in eukaryotes and in humans it is expressed in most tissues other than striated muscle. Through its prostaglandin synthase activity, p23 contributes to the production of prostaglandin E2 and has a role in maintenance of tissue homeostasis. In addition to its catalytic activity in the prostaglandin biosynthesis pathway, p23 serves as a co-chaperone to HSP90 (Heat Shock Protein 90) in various biological functions. The p23/HSP90 complex is required for efficient telomerase assembly in vitro and in vivo. It has also been demonstrated that p23 and HSP90 localize to genomic response elements in a hormone-dependent manner, and may promote disassembly of transcriptional regulatory complexes in response to changes in cellular signaling pathways. p23 protein is up-regulated in several cancers, notably breast cancer.