

Rabbit PTGES3 Polyclonal Antibody | anti-PTGES3 antibody

PTGES3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326979	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PTGES3; Polyclonal Antibody; PTGES3 Antibody; Co chaperone p23; cPGES; Cytosolic prostaglandin E synthase; Cytosolic prostaglandin E2 synthase; Hsp90 co chaperone; Hsp90 co-chaperone; P23; Progesterone receptor complex; Progesterone receptor complex p23; Prostaglandin E synthase 3 (cytosolic); Prostaglandin E synthase 3; PTGES 3; Sid 3177; TEBP; TEBP_HUMAN; Telomerase binding protein p23; Telomerase-binding protein p23; Unactive progesterone receptor 23 kD; anti-PTGES3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PTGES3 antibody detects endogenous levels of total PTGES3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	139
Applicable Applications for anti-PTGES3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PTGES3
Subcellular Location	Cytoplasm.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326979 at 1/100 staining Human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA326979 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using PTGES3 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGES3 antibody

Function: Cytosolic prostaglandin synthase that catalyzes the oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2) (PubMed:10922363). Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes (PubMed:11274138, PubMed:12077419). Facilitates HIF alpha proteins hydroxylation via interaction with EGLN1/PHD2, leading to recruit EGLN1/PHD2 to the HSP90 pathway (PubMed:24711448).

Subunit Structure: Probably forms a complex composed of chaperones HSP90 and HSP70, co-chaperones STIP1/HOP, CDC37, PPP5C, PTGES3/p23, TSC1 and client protein TSC2 (PubMed:29127155). Binds to the progesterone receptor (PubMed:8114727). Interacts with TERT; the interaction, together with HSP90AA1, is required for correct assembly and stabilization of the telomerase holoenzyme complex (PubMed:11274138). Interacts (via PXLE motif) with EGLN1/PHD2, recruiting EGLN1/PHD2 to the HSP90 pathway to facilitate HIF alpha proteins hydroxylation (PubMed:24711448). Interacts with HSP90AA1, FLCN, FNIP1 and FNIP2 (PubMed:27353360).

Similarity: The PXLE motif mediates interaction with EGLN1/PHD2. Belongs to the p23/wos2 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	543583723
NCBI GeneID	10728
NCBI Accession #	NP_001269530.1
NCBI GenBank Nucleotide #	NM_001282601.1
UniProt Accession #	Q15185; Q8WU70; A8K7D0; B4DHP2; B4DP11; B4DP21
Molecular Weight	Observed: 19 kDa Predicted: 19 kDa
NCBI Official Full Name	prostaglandin E synthase 3 isoform b
NCBI Official Synonym Full Names	prostaglandin E synthase 3
NCBI Official Symbol	PTGES3
NCBI Official Synonym Symbols	P23; TEBP; cPGES
NCBI Protein Information	prostaglandin E synthase 3
UniProt Protein Name	Prostaglandin E synthase 3

UniProt Gene Name	PTGES3
UniProt Synonym Gene Names	P23; TEBP; cPGES

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ptges3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326979>