Data Sheet (Cat.No.TMAC-02944)

Anti-PTGES3 Antibody (3N840)

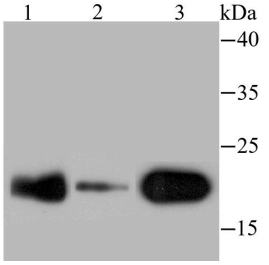
Product Details

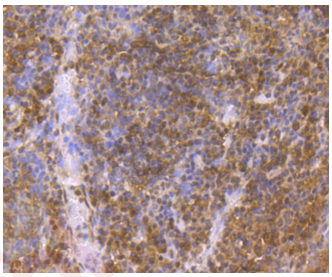
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 23 kDa.
Clone:	3N840
Purification:	ProA affinity purified

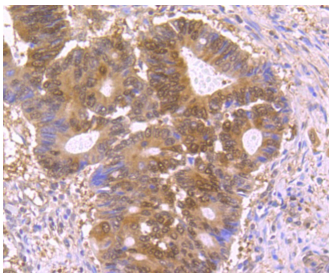
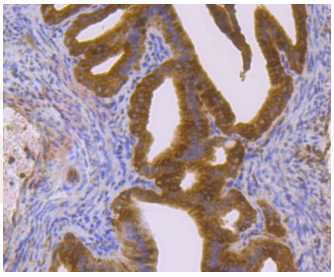
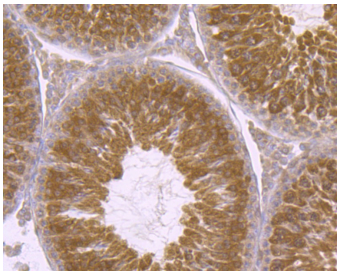
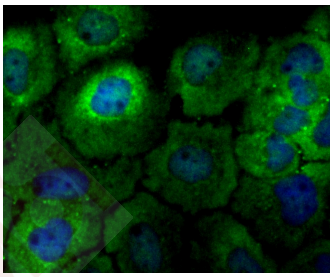
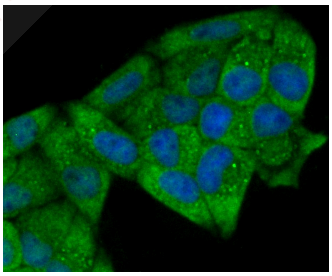
Applications

Verified Activity:

1. Western blot analysis of p23 on different lysates using anti-p23 antibody at 1/500 dilution. Positive control: Lane 1: Mouse brain tissue, Lane 2: SK-Br-3, Lane 3: Rat lung tissue.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-p23 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-p23 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse fallopian tube tissue using anti-p23 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-p23 antibody. Counter stained with hematoxylin.
6. ICC staining p23 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining p23 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application:	ICC,IHC,IP,WB
Recommended	WB: 1:500-2000; IHC: 1:100-500; ICC: 1:50-200; IP: 1:10-50

Properties

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

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q15185
Synonyms:	PTGES3;TEBP;Cytosolic prostaglandin E2 synthase (cPGES);Telomerase-binding protein p23; P23;Hsp90 co-chaperone;Progesterone receptor complex p23;Prostaglandin E synthase 3

Research Background

P23, also known as PTGES3 (prostaglandin E synthase 3) or TEBP (telomerase-binding protein p23), is a ubiquitously expressed protein that functions as a cochaperone and plays an important role in signal transduction. One of several proteins in the HSP 90-based molecular chaperone complex, P23 promotes the breakdown of transcriptional regulatory complexes by disrupting receptor-mediated transcriptional activation. P23 acts in a hormone-dependent manner to chaperone estrogen receptor alpha (ERα), a steroid complex, to its mature form and to regulate the expression of ERα-related genes. Localized to the cytoplasm, P23 interacts with the glucocorticoid receptor (GR) and, through disassembly of the GR transcription machinery, is thought to inhibit GR-dependent transcription. The involvement of P23 in various steroid receptor-mediated pathways suggests close involvement in signal transduction and regulation of cellular processes. Upregulation of P23 is implicated in the invasion and metastasis of various cancers.

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