Data Sheet (Cat.No.TMAB-11899)

TargetMol

Anti-PTGER2 Antibody (6T912)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 40 kDa.
Clone:	6T912
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded Rat bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 2. Paraformaldehyde-fixed, paraffin embedded Rat spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 3. Paraformaldehyde-fixed, paraffin embedded Rat kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 4. Paraformaldehyde-fixed, paraffin embedded Rat placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 5. Paraformaldehyde-fixed, paraffin embedded Mouse bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 6. Paraformaldehyde-fixed, paraffin embedded Mouse spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 7. Paraformaldehyde-fixed, paraffin embedded Mouse kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 8. Paraformaldehyde-fixed, paraffin embedded Mouse placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining. 9. Paraformaldehyde-fixed, paraffin embedded Human kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.

10. Paraformaldehyde-fixed, paraffin embedded Human spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.
11. Paraformaldehyde-fixed, paraffin embedded Human placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.
12. Paraformaldehyde-fixed, paraffin embedded Rat bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Ratbbit IgG antibody (red, Goat Anti-Rabbit IgG H&L-BF594), DAPI (blue) was used to stain the cell nuclei.
13. Paraformaldehyde-fixed, paraffin embedded Mouse bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Ratbbit IgG antibody (red, Goat Anti-Rabbit IgG H&L-BF594), DAPI (blue) was used to stain the cell nuclei.
14. Paraformaldehyde-fixed, paraffin embedded human placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PTGER2 Monoclonal Antibody, Unconjugated (TMAB-11899) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Ratbbit IgG antibody (red, Goat Anti-Rabbit IgG H&L-BF594), DAPI (blue) was used to stain the cell nuclei.

Application:	IHC-P,IF,IHC-Fr
Recommended	IHC-P: 1:100-500; IF: 1:100-500; IHC-Fr: 1:100-500

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:	A synthesized peptide: human PTGER2
Antigen Species:	Human
Gene ID:	5732
Uniprot ID:	P43116

Research Background

Prostaglandins are produced by the metabolism of arachidonic acid. Prostaglandin E2 is one of the five physiologically significant prostanoids known. Its wide spectrum of physiologic and pharmacologic effects in various tissues is mediated through binding to the Prostaglandin E2 receptors (EP1, EP2, EP3 & EP4). These include effects on the immune, endocrine, cardiovascular, renal and reproductive systems as well as smooth muscle. It is also one of the most abundant of the prostanoid family in the brain where it plays an important role in many neural functions, particularly in newborn babies, and as a mediator of inflammation. Prostaglandin E2 signals through a family of G-protein coupled receptors known as EP receptors. There are 4 subtypes of EP receptors, known as EP1, EP2, EP3 and EP4. EP2 receptors are 358 amino acid proteins with a short third intracellular loop. EP2 receptors stimulate adenylyl cyclase by their coupling to Gs and do not undergo Prostaglandin E2 induced internalization. The EP2 receptors is involved with the contration and relaxation of smooth muscle tissue. These receptors are mainly localized in lung and placental tissues and in smooth muscle.

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