

Rabbit Anti-Cyclooxygenase 2 antibody

SL10411R

Product Name	Cyclooxygenase 2
Chinese Name	环氧合酶 2/前列腺素内过氧化物合成酶 2 抗体
Alias	PTGS2; COX 2; COX2; COX-2; Cyclooxygenase; Cyclooxygenase2; Cyclooxygenase-2; hCox 2; PGG/HS; PGH synthase 2; PGHS 2; PGHS2; PHS 2; PHS II; PHS2 ; Prostaglandin endoperoxide synthase 2; Prostaglandin G/H synthase 2 precursor; Prostaglandin G/H synthase and cyclooxygenase; Prostaglandin G/H synthase 2; Prostaglandin H2 synthase 2; TIS10II; PGH2_HUMAN.
Research Area	Tumour immunology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep,) ICC/IF=1:50-200,Flow-Cyt=1µg/Test (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	65kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Cyclooxygenase 2: 301-400/604
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

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Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq, Feb 2009]

Function:

Mediates the formation of prostaglandins from arachidonate. May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity.

Subunit:

Homodimer.

Subcellular Location:

Microsome membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein.

**Product
Detail**

Post-translational modifications:

S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-561.

Similarity:

Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.

SWISS:

P35354

Gene ID:

5743

Database links:

[Entrez Gene: 5743](#) Human

[Entrez Gene: 19225](#) Mouse

[Entrez Gene: 29527](#) Rat

[Omim: 600262](#) Human

[SwissProt: P35354](#) Human

[SwissProt: Q05769](#) Mouse

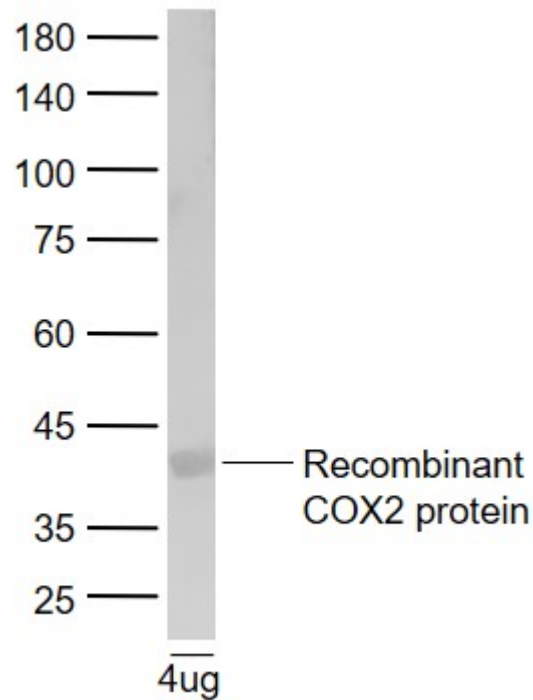
[SwissProt: P35355](#) Rat

[Unigene: 196384](#) Human

[Unigene: 292547](#) Mouse

[Unigene: 44369](#) Rat

**Product
Picture**



Sample:

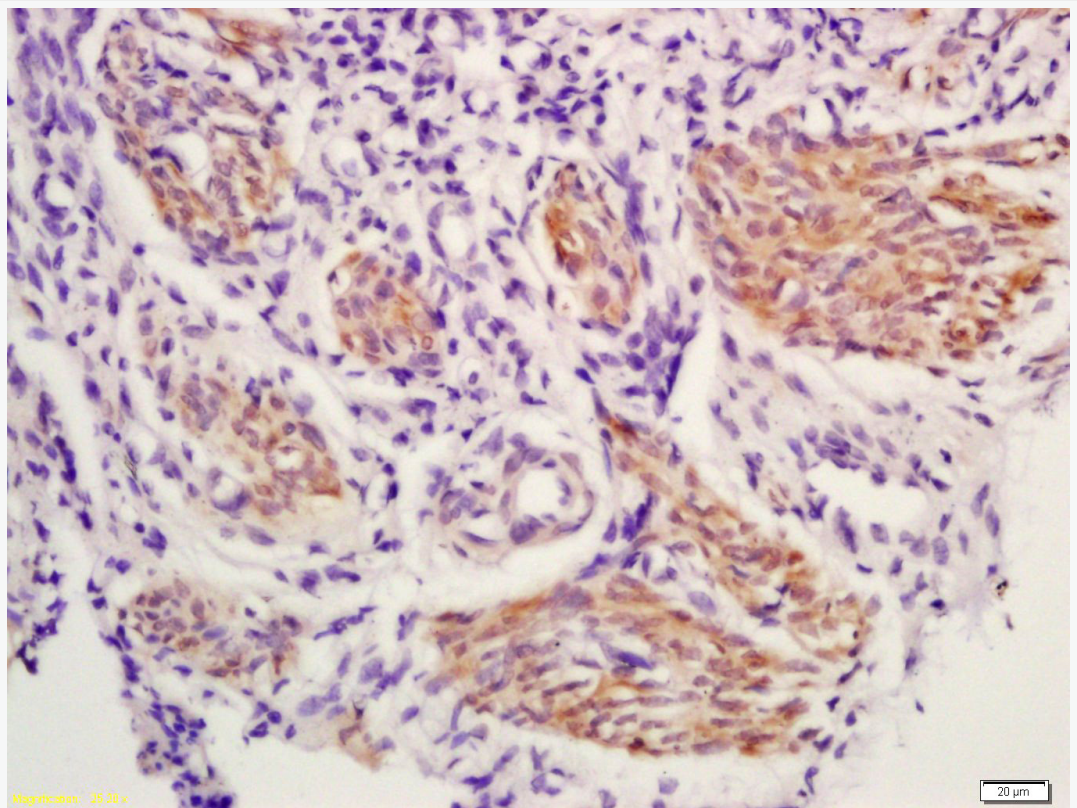
Lane 1: Recombinant human COX2 protein

Primary: Anti-Cyclooxygenase 2 (SL10411R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 65 kD

Observed band size: 40 kD

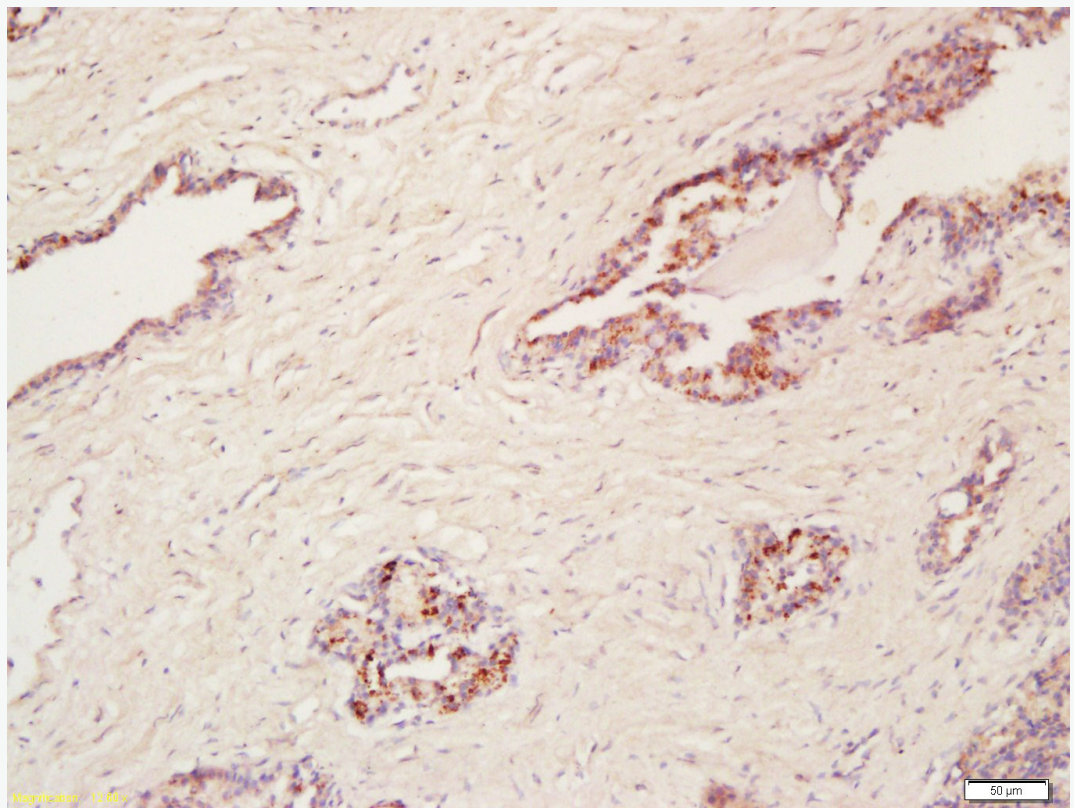


Tissue/cell: human myometrium tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Cyclooxygenase-2 Polyclonal Antibody,

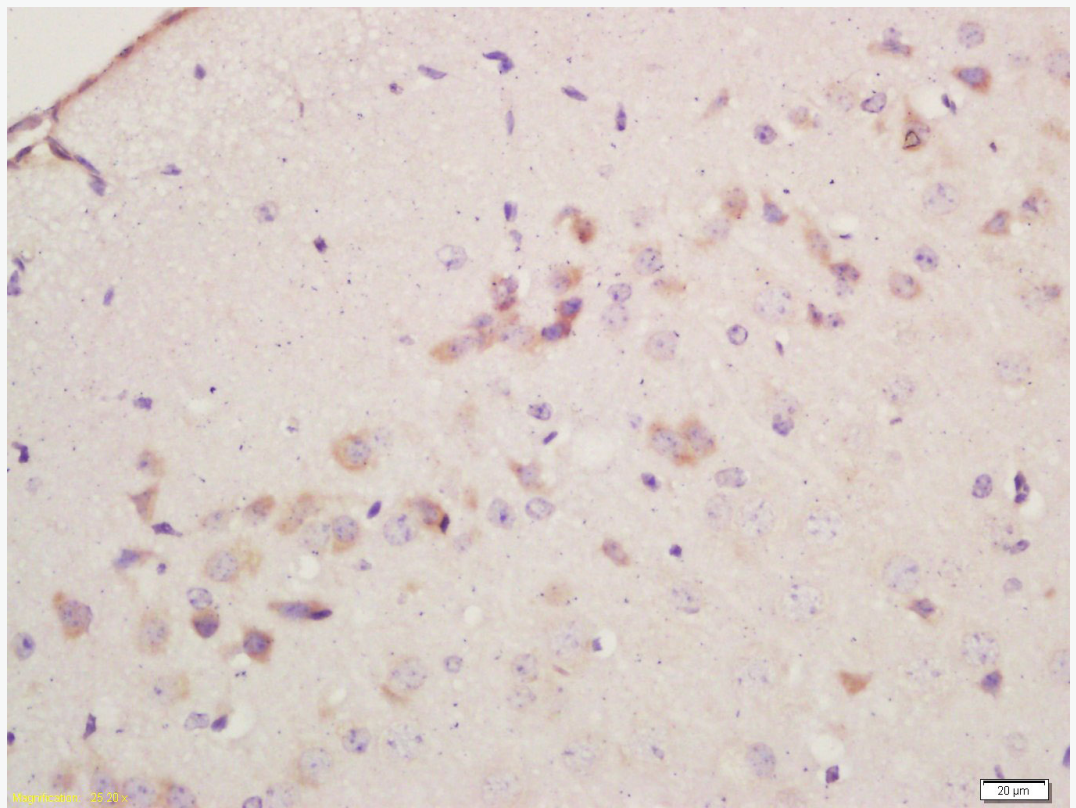
Unconjugated(SL10411R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human prostate tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

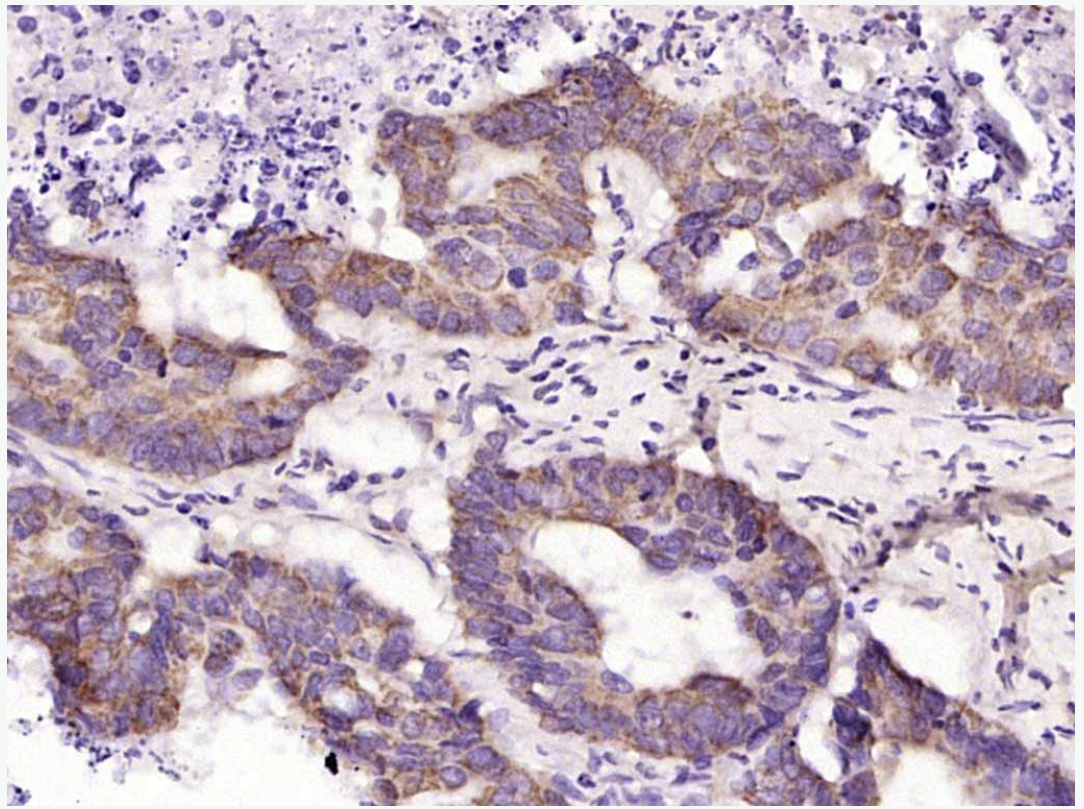
Incubation: Anti-COX-2 Polyclonal Antibody, Unconjugated(SL10411R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



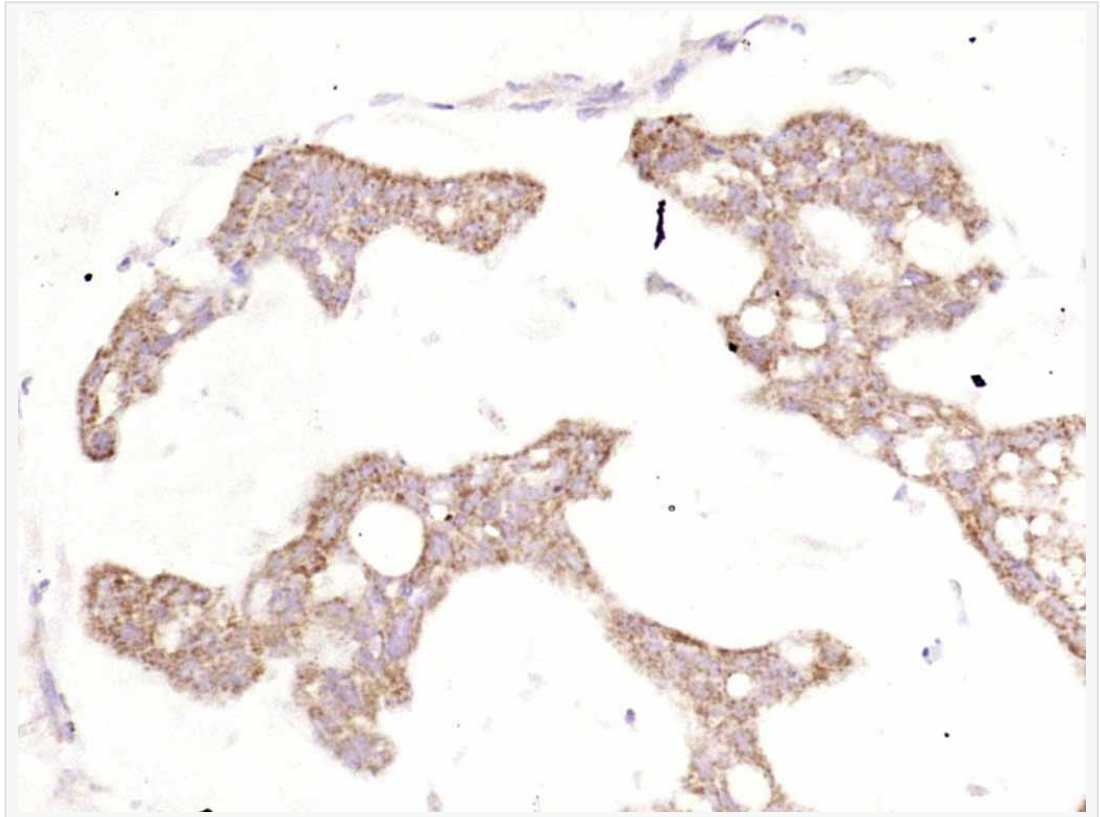
Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

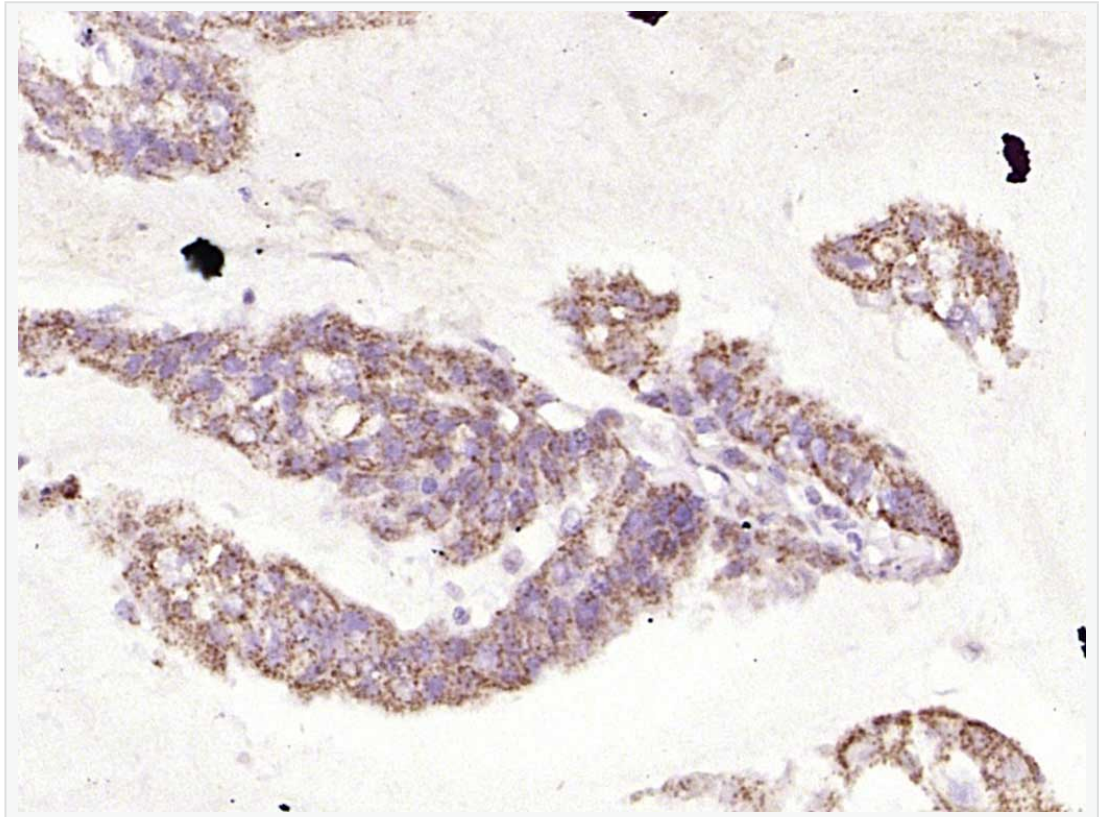
Incubation: Anti-COX-2 Polyclonal Antibody, Unconjugated(SL10411R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



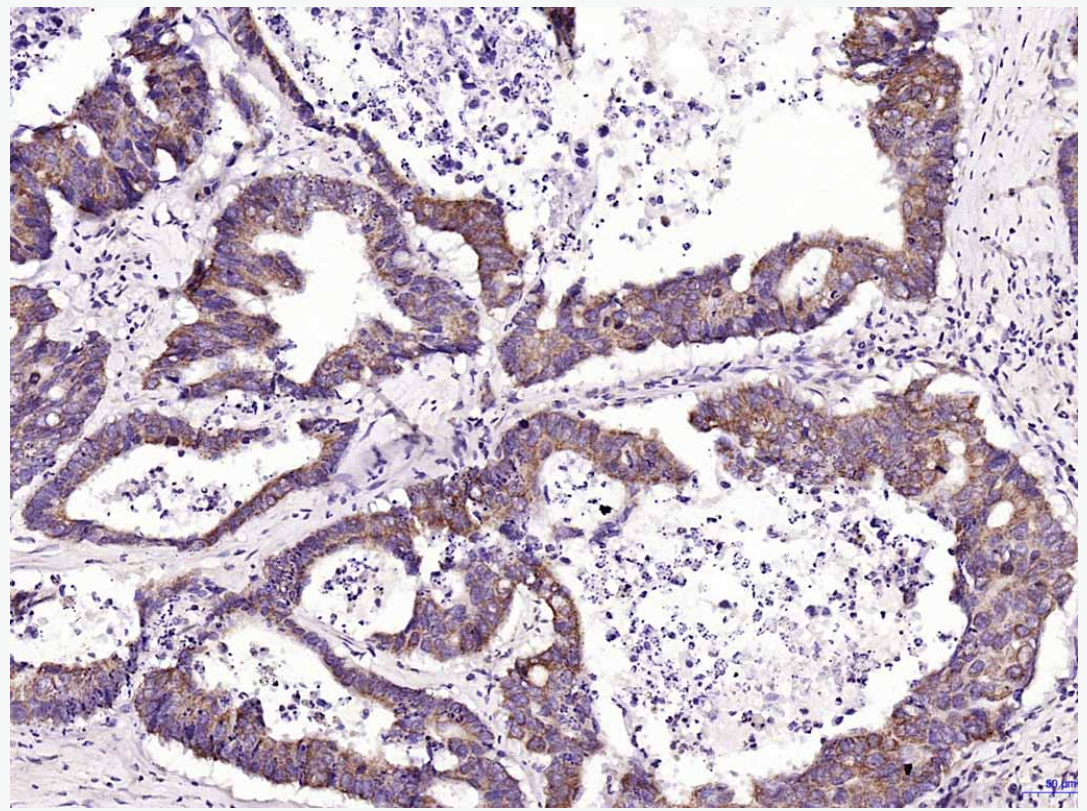
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cyclooxygenase 2) Polyclonal Antibody, Unconjugated (SL10411R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cyclooxygenase 2) Polyclonal Antibody, Unconjugated (SL10411R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cyclooxygenase 2) Polyclonal Antibody, Unconjugated (SL10411R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cyclooxygenase 2) Polyclonal Antibody, Unconjugated (SL10411R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.