

Rabbit COX-2 Monoclonal Antibody | anti-COX-2 antibody

COX-2 RMa

CATALOG # AAA59204	HOST Rabbit	REACTIVITY Human, Dog, Cat, Mouse, Rat	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

COX-2; Monoclonal Antibody; COX-2 RMa; anti-COX-2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Dog, Cat, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	RBT-COX2
Form/Format	COX-2 is a rabbit monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Applicable Applications for anti-COX-2 antibody	IHC (Immunohistochemistry)
Control	Adenocarcinoma of Colon
Localization	Cytoplasmic
Immunogen	Synthetic peptide corresponding to residues near the C-terminus of human COX-2
Control	Colon, Testis, Kidney, Placenta, Liver, Fallopian, Tube, Pancreas, Tonsil, Thymus, Breast, Adenocarcinoma of Colon, Bladder TCC.
Reactivity Note	Paraffin, Frozen
Specimen Preparation	Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using ImmunoDNA Retriever with Citrate, ImmunoDNA Retriever with EDTA or ImmunoDNA Digestor. See reverse side for complete protocol. Tissue should remain hydrated via use of Immuno/DNA Washer solutions. Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.
Precautions	1. For professional users only. Ensure results are interpreted by a medical professional. 2. This product contains sodium azide (NaN₃), a toxic chemical which may react with this plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent sodium azide build-up. 3. Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents. 4. Unused solution should be disposed of according to local and federal regulations. 5. Do not ingest reagent. If reagent ingested, contact poison control center immediately. 6. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 8. For additional safety information refer to Safety Data Sheet for this product. 9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL".

Staining Procedure

1. Cut and mount 3-5 micron formalin – fixed paraffin- embedded tissues on positive charged slides such as Hydrophilic Plus Slides.
2. Air Dry for 2 hours at 58°C
3. Deparaffinize, dehydrate and rehydrate tissues.
4. Subject tissues to heat epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate .
5. Any of three heating methods may be used:
A) Tinto Retriever Pressure Cooker or Equivalent
 Place tissues/ slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 min. Open and immediately transfer slides to room temperature.
B) Tinto Retriever PT Module or Water Bath Method.
 Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°C to 99°C. Incubate for 30-60 min.
C)Conventional Steamer Method
 Place tissue/slides in a pre-warmed staining dish or coplin jar containaing the ImmunoDNA Retriever with Citrate or EDTA in a Steamer, cover and steamer for 30-60 min.
 6.-Afer heat treatment,transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 min.
 7. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods ,perform antibody incubation according to instrument manufacturer's instructions.
 8. Wash slides with IHC wash buffer or DI water.
 9. Continue IHC staining protocol. Wash slides between each step with ImmunoDNA washer solution.

Preparation and Storage

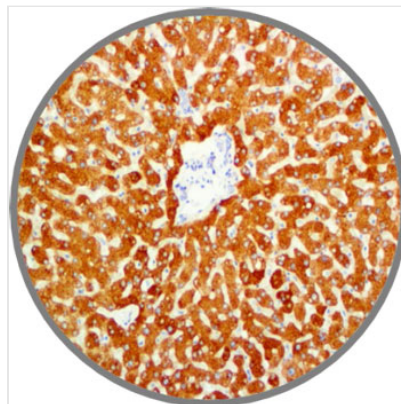
Store at 2 to 8°C. (Control Slides: Store at 20-25°C)

IMAGES

Abbreviated Immunohistochemical Protocol

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Application Data



IHC (Immunohistochemistry)

IHC of COX-2 on a FFPE Colon Adenocarcinoma Tissue

Antibody Type	Dilution	Volume/QTY
Prediluted	Ready-To-Use	3.0 ml
Prediluted	Ready-To-Use	7.0 ml
Prediluted	Ready-To-Use	15.0 ml
Concentrated	1:25-1:100	0.1 ml
Concentrated	1:25-1:100	0.5 ml
Concentrated	1:25-1:100	1.0 ml
Control Slides		5

Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-COX-2 antibody	Collagen is the main protein of connective tissue in animals and the most abundant protein in mammals, Cyclooxygenase (COX) is an enzyme that is responsible for formation of important biological mediators called prostanoids (including prostaglandins, prostacyclin and thromboxane). Pharmacological inhibition of COX can provide relief from the symptoms of inflammation and pain; this is the method of action of well-known drugs such as aspirin and ibuprofen. COX-2 inhibition by nonsteroidal anti-inflammatory agents has been shown to decrease angiogenesis and tumor growth, and promote apoptosis. COX-2 overexpression has been associated with increased microvascular density, and VEGF protein expression in head and neck Squamous-cell Carcinomas and is a poor prognostic indicator in this entity as well. COX-2 overexpression has also been suggested as a poor prognostic indicator in Carcinomas of the colon, breast, pancreas, and Adenocarcinomas of the lung.
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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/monoclonal/cox-2-antibody-clone-rbt-cox2-immunohistochemistry-elisa/59204>