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Datasheet for ABIN1048906

anti-GPRC5A antibody (Cytoplasmic Domain)

4 Images

Overview

Quantity:	50 µg
Target:	GPRC5A
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from 1st cytoplasmic domain of human GPRC5A / RAI3. Percent identity with other species by BLAST analysis: Human, Gorilla (100%), Gibbon, Monkey, Bat, Dog, Panda (94%), Marmoset, Bovine (88%), Hamster, Rabbit, Opossum (81%). Type of Immunogen: Synthetic peptide
Specificity:	Human GPRC5A / RAI3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla (100%) Gibbon, Monkey, Bat, Dog, Panda (94%) Marmoset, Bovine (88%) Hamster, Rabbit, Opossum (81%).
Purification:	Immunoaffinity purified

Target Details

Target:	GPRC5A
Alternative Name:	GPRC5A / RAI3 (GPRC5A Products)
Background:	Name/Gene ID: GPRC5A Subfamily: Orphan-C Family: GPCR Synonyms: GPRC5A, RAIG-1, Retinoic acid induced 3, Retinoic acid responsive, GPCR5A, RAI3, RAIG1, Retinoic acid-inducible gene 1
Gene ID:	9052

Application Details

Application Notes:	Approved: IHC, IHC-P (5 - 6 µg/mL) Not recommended for: ICC
Comment:	Target Species of Antibody: Human
Assay Procedure:	The IHC-pro Immunohistochemistry Protocol

Tissue Preparation

Formalin fixation and embedding in paraffin wax

Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: PBS, less than 0.1 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

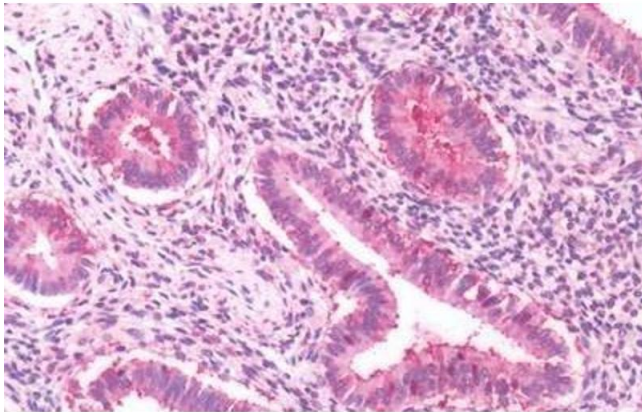
should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.

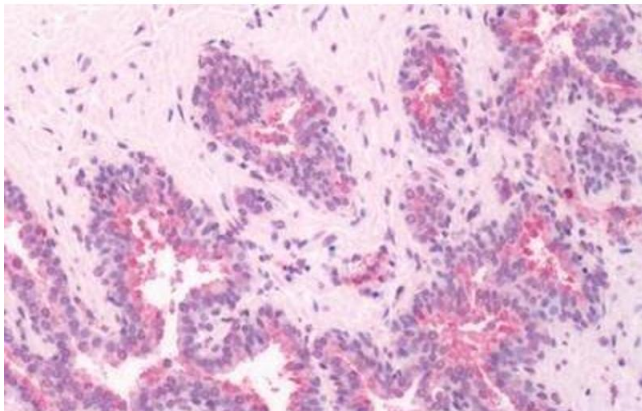
Expiry Date: 12 months

Images



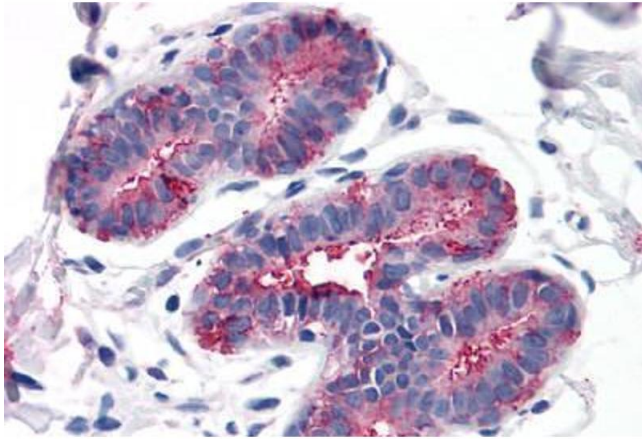
Immunohistochemistry

Image 1. Human, Uterus: Formalin-Fixed Paraffin-Embedded (FFPE)



Immunohistochemistry

Image 2. Human, Prostate: Formalin-Fixed Paraffin-Embedded (FFPE)



Immunohistochemistry

Image 3. Anti-GPRC5A / RAI3 antibody ABIN1048906 IHC staining of human breast. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1048906.