Datasheet for ABIN1048791

anti-GPER antibody (Cytoplasmic Domain)

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Overview

Quantity:	50 µg
Target:	GPER
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPER antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from 1st cytoplasmic domain of human GPR30. Percent identity with other species by BLAST analysis: Human, Gorilla (100%), Marmoset (94%), Monkey, Panda (88%). Type of Immunogen: Synthetic peptide
Specificity:	Human GPR30. 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%) Marmoset (94%) Monkey, Panda (88%).

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Product Details

Purification:	Immunoaffinity purified

Target Details

Target:	GPER
Alternative Name:	GPER1 / GPR30 (GPER Products)
Background:	Name/Gene ID: GPER1 Subfamily: Transmembrane Estrogen Receptor Family: GPCR Synonyms: GPER1, CMKRL2, CEPR, FEG-1, G-protein coupled receptor 30, G protein-coupled receptor 30, GPCR-Br, GPER, Heptahelix receptor, LERGU, LyGPR, MER, GPR30, IL8-related receptor DRY12, LERGU2, Chemokine receptor-like 2, DRY12, Membrane estrogen receptor
Gene ID:	2852
Pathways:	EGFR Signaling Pathway, Positive Regulation of Peptide Hormone Secretion, Intracellular Steroid Hormone Receptor Signaling Pathway, Steroid Hormone Mediated Signaling Pathway, Carbohydrate Homeostasis, cAMP Metabolic Process, Regulation of G-Protein Coupled Receptor Protein Signaling, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	Approved: ICC, IHC, IHC-P (15 - 20 µg/mL), WB Not recommended for: IF
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

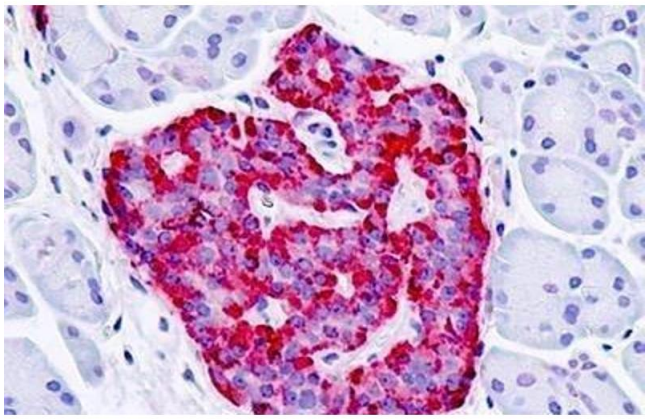
Restrictions:	For Research Use only

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 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

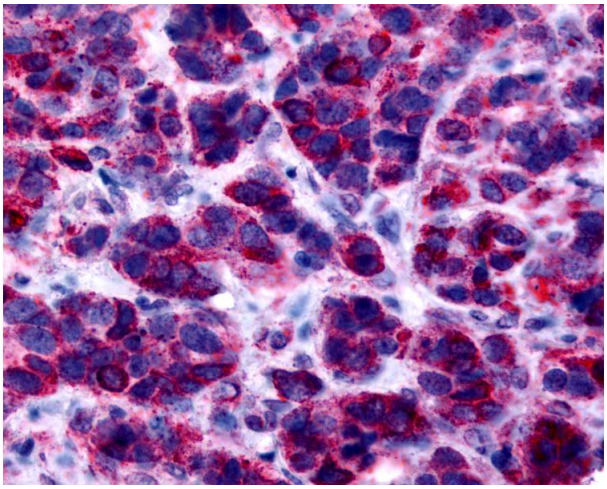
Publications

Product cited in:	Vivacqua, Bonofiglio, Recchia, Musti, Picard, Andò, Maggiolini: "The G protein-coupled receptor GPR30 mediates the proliferative effects induced by 17beta-estradiol and hydroxytamoxifen in endometrial cancer cells." in: **Molecular endocrinology (Baltimore, Md.)**, Vol. 20, Issue 3, pp. 631-46, (2006) (PubMed). Thomas, Pang, Filardo, Dong: "Identity of an estrogen membrane receptor coupled to a G protein in human breast cancer cells." in: **Endocrinology**, Vol. 146, Issue 2, pp. 624-32, (2005) (PubMed).



Immunohistochemistry

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



Immunohistochemistry

Image 2. Anti-GPER1 / GPR30 antibody IHC of human breast, carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

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