

Datasheet for ABIN1048793
anti-GPER antibody (Extracellular Domain)

3 Images

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Overview

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

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 15 amino acid peptide from 2nd extracellular domain of human GPR30. Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey (100%), Marmoset, Elephant (93%), Mouse, Rat, Hamster, Panda, Horse, Opossum, Platypus (87%), Dog, Bovine, Turkey, Zebra finch, Chicken (80%). 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, Monkey (100%)

Product Details

Marmoset, Elephant (93%) Mouse, Rat, Hamster, Panda, Horse, Opossum, Platypus (87%) Dog, Bovine, Turkey, Zebra finch, Chicken (80%).

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: ELISA, IHC, IHC-P (5 - 7.5 µg/mL)

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

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: PBS, less than 0.1 % sodium azide.

Preservative: Sodium azide

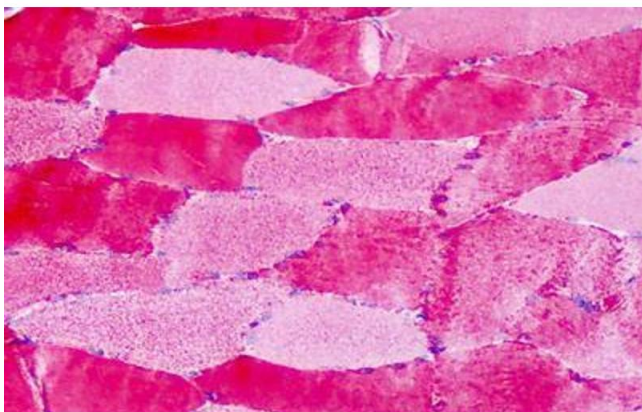
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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.

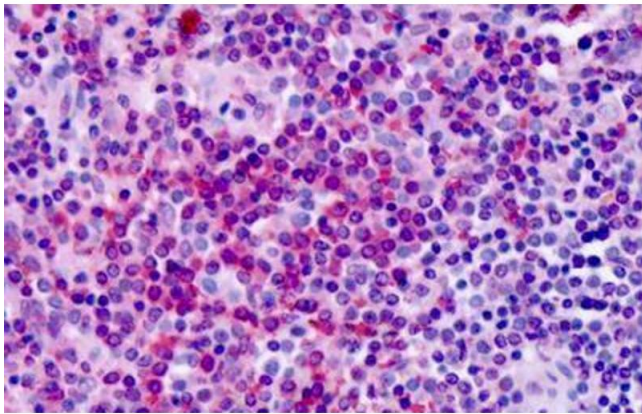
Expiry Date: 12 months

Images



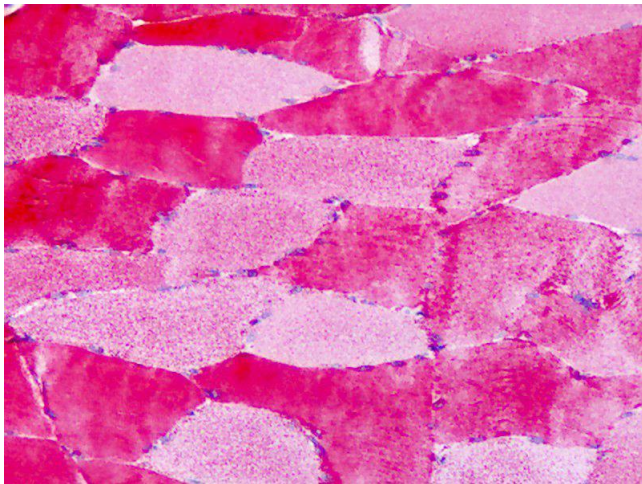
Immunohistochemistry

Image 1. Anti-GPR30 antibody IHC staining of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody ABIN1048793 dilution 38538 ug/ml.



Immunohistochemistry

Image 2. Anti-GPR30 antibody IHC staining of human spleen. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody ABIN1048793 dilution 38538 ug/ml.



Immunohistochemistry

Image 3. Anti-GPR30 antibody IHC of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 5-7.5 ug/ml.