Datasheet for ABIN1048794
anti-GPER antibody (Extracellular Domain)

Overview

Quantity: 50 μg
Target: GPER
Binding Specificity: Extracellular Domain
Reactivity: Human, Monkey
Host: Rabbit
Clonality: Polyclonal
Application: Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Brand: IHC-plus™
Immunogen: Synthetic 16 amino acid peptide from 3rd extracellular domain of human GPR30. Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey, Marmoset (100%), Mouse, Rat, Hamster, Elephant, Dog, Opossum (94%), Panda, Bat, Horse, Rabbit, Platypus (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, Monkey, Marmoset (100%) Mouse, Rat, Hamster, Elephant, Dog, Opossum (94%) Panda, Bat, Horse, Rabbit, Platypus (88%).
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: IF, IHC, IHC-P (6.4 μg/mL), WB

Usage: Antibody does not work for Western blot with mouse samples.

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
Application Details

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

<table>
<thead>
<tr>
<th>Format</th>
<th>Liquid</th>
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<tbody>
<tr>
<td>Concentration</td>
<td>Lot specific</td>
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<tr>
<td>Buffer</td>
<td>PBS, less than 0.1 % sodium azide.</td>
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<tr>
<td>Preservative</td>
<td>Sodium azide</td>
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<tr>
<td>Precaution of Use</td>
<td>This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</td>
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<td>Storage</td>
<td>4 °C,-20 °C</td>
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<tr>
<td>Storage Comment</td>
<td>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.</td>
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<td>Expiry Date</td>
<td>12 months</td>
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Images

**Immunohistochemistry**

**Image 1.** Anti-GPR30 antibody ABIN1048794 IHC staining of human brain, hippocampus. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

**Image 2.** Anti-GPR30 antibody IHC of human brain, hippocampus. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.