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anti-TSH receptor antibody (N-Term)

2 Images



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Overview

Quantity:	50 μg
Target:	TSH receptor (TSHR)
Binding Specificity:	N-Term
Reactivity:	Human, Monkey
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 N-terminal extracellular domain of human TSH Receptor. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey (100%),
	Marmoset (88%), Cat, Panda (81%).
Specificity:	Marmoset (88%), Cat, Panda (81%).
Specificity: Predicted Reactivity:	Marmoset (88%), Cat, Panda (81%). Type of Immunogen: Synthetic peptide Human TSH Receptor. BLAST analysis of the peptide immunogen showed no homology with

Target Details

Target:	TSH receptor (TSHR)
Alternative Name:	TSH Receptor / TSHR (TSHR Products)
Background:	Name/Gene ID: TSHR
	Subfamily: Glycoprotein hormone
	Family: GPCR
	Synonyms: TSHR, CHNG1, HTSHR-I, LGR3, Thyrotrophin receptor, TSH-R, TSH receptor,
	Thyrotropin receptor
Gene ID:	7253
Pathways:	Thyroid Hormone Synthesis

Application Details

Assay Procedure:	The IHC-pro Immunohistochemistry Protocol
Comment:	Target Species of Antibody: Human
Application Notes:	Approved: IHC, IHC-P (2 - 3 μg/mL)

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

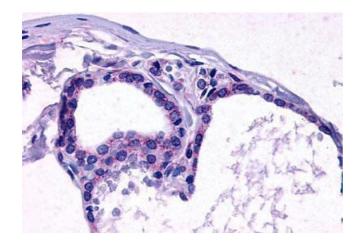
Handling

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.

Handling

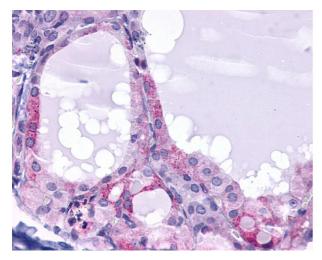
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-TSH Receptor antibody ABIN1049442 IHC staining of human thyroid, follicular epithelium. Immunohistochemistry of formalin-fixed, paraffinembedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-TSH Receptor / TSHR antibody IHC of human Thyroid, Follicular Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.