

TGR5 Polyclonal Antibody

Catalog NumberPA5-27076

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Synthetic peptide corresponding to a region within amino acids 264 and 330 of Human TGR5	Western Blot (WB)	1:500-1:3,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Concentration	1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: A431, H1299, HeLa, HepG2, Molt-4, Raji. Predicted reactivity: Chimpanzee (100%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

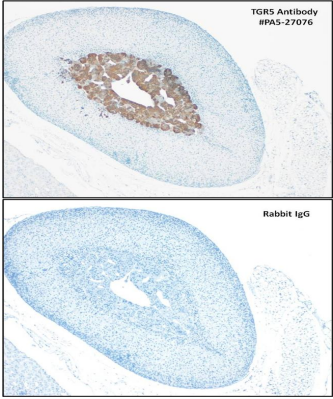
This gene encodes a member of the G protein-coupled receptor (GPCR) superfamily. This enzyme functions as a cell surface receptor for bile acids. Treatment of cells expressing this GPCR with bile acids induces the production of intracellular cAMP, activation of a MAP kinase signaling pathway, and internalization of the receptor. The receptor is implicated in the suppression of macrophage functions and regulation of energy homeostasis by bile acids. Alternative splicing results in multiple transcript variants encoding the same protein.

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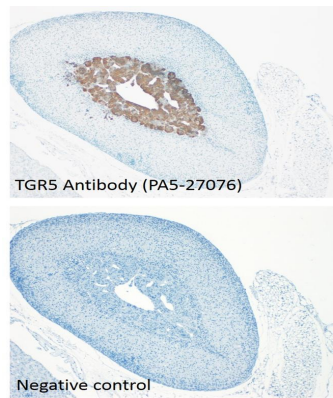
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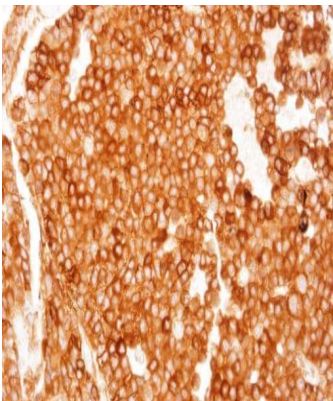
TGR5 Antibody (PA5-27076) in IHC

Immunohistochemistry analysis of TGR5 Antibody (Product # PA5-27076) was performed on a mouse (*Mus musculus*) adrenal gland. To expose target proteins, antigen retrieval was performed by microwaving tissues for 10 minutes in 10mM sodium citrate buffer (pH 6.0). Following antigen retrieval, endogenous peroxidases were blocked with 3% hydrogen peroxide for 10 min at room temperature. Tissue slides were washed with deionized water and TBST, and then blocked in a protein free blocking buffer for 7 min at room temperature. Tissues were incubated with a TGR5 Antibody (Product # PA5-27076) diluted 1:100 in distilled water or rabbit IgG as a negative control for 1 hour at room temperature in a humidified chamber. Tissues were washed extensively in TBST and detection was performed using a polymer, and then followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting. Images were taken on a microscope at 20X magnification. In the image, immunolabeling is observed in the neurons of the adrenal gland medulla.



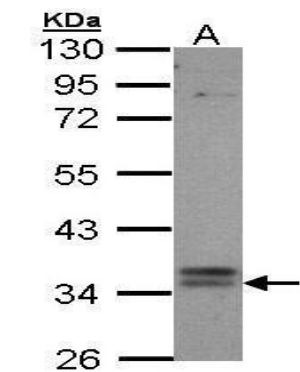
TGR5 Antibody (PA5-27076) in IHC

Immunohistochemistry analysis of TGR5 Antibody (Product # PA5-27076) was performed on a mouse adrenal gland. Antigen retrieval was performed by microwaving tissues for 10 minutes in 10mM sodium citrate buffer (pH 6.0). Following antigen retrieval, endogenous peroxidases were blocked with 3% hydrogen peroxide for 10 min at room temperature. Tissue slides were washed with deionized water and TBST, and then blocked in a protein free blocking buffer for 7 min at room temperature. Tissues were incubated with a TGR5 Antibody (Product # PA5-27076) diluted 1:100 in distilled water or rabbit IgG as a negative control for 1 hour at room temperature in a humidified chamber. Tissues were washed extensively in TBST and detection was performed using a polymer, then followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting. Images were taken at 20X magnification. In the image, immunolabeling is observed in the neurons of the adrenal gland medulla. Data courtesy of Antibody Data Exchange Program.



TGR5 Antibody (PA5-27076) in IHC (P)

Immunohistochemical analysis of paraffin-embedded HUH-7 xenograft, using TGR5 (Product # PA5-27076) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



TGR5 Antibody (PA5-27076) in WB

Western Blot using TGR5 Polyclonal Antibody (Product # PA5-27076). Sample (30 µg of whole cell lysate). Lane A: HepG2. 10% SDS PAGE. TGR5 Polyclonal Antibody (Product # PA5-27076) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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PubMed References For TGR5 Polyclonal Antibody

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	PA5-27076 was used in immunohistochemistry - paraffin section to discover a potential source of serum autotaxin in men by analyzing enteroendocrine cells
Not Applicable / 1:1000	Biochimica et biophysica acta (2016; 1862: 696) "Enteroendocrine cells are a potential source of serum autotaxin in men." Author(s):Bolier R,Tolenaars D,Kremer AE,Saris J,Parés A,Verheij J,Bosma PJ,Beuers U,Oude Elferink RPJ PubMed Article URL: http://dx.doi.org/10.1016/j.bbadis.2016.01.012

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