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PIGR Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8555B

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	P01833
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	83284
Antigen Region	646-672

Additional Information

Gene ID	5284
Other Names	Polymeric immunoglobulin receptor, PIgR, Poly-Ig receptor, Hepatocellular carcinoma-associated protein TB6, Secretory component, PIGR
Target/Specificity	This PIGR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 646-672 amino acids from the C-terminal region of human PIGR.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PIGR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PIGR
Function	[Polymeric immunoglobulin receptor]: Mediates selective transcytosis of polymeric IgA and IgM across mucosal epithelial cells. Binds polymeric IgA and IgM at the basolateral surface of epithelial cells. The complex is then transported across the cell to be secreted at the apical surface. During this

process, a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment.

Cellular Location [Polymeric immunoglobulin receptor]: Cell membrane; Single-pass type I membrane protein

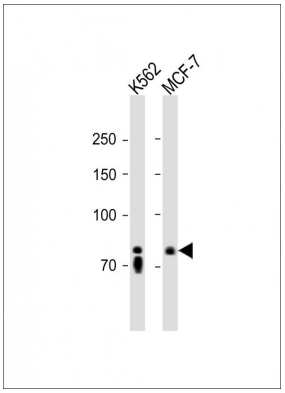
Background

PIGR binds polymeric IgA and IgM at the basolateral surface of epithelial cells. The complex is then transported across the cell to be secreted at the apical surface. During this process a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment.

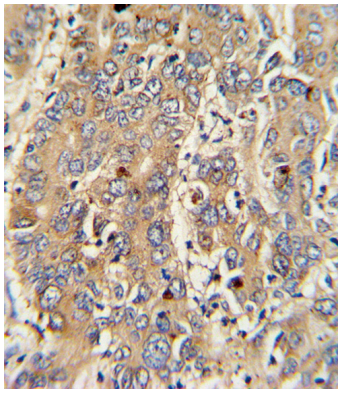
References

Ewing,R.M., et.al., Mol. Syst. Biol. 3, 89 (2007)
Orzech,E., Cohen,S., et.al., J. Biol. Chem. 275 (20), 15207-15219 (2000)

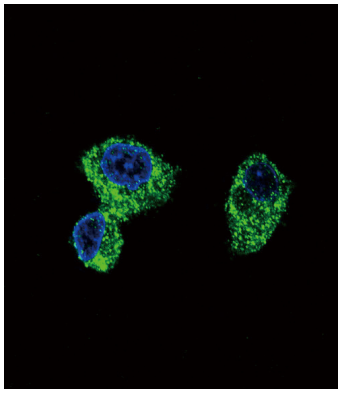
Images



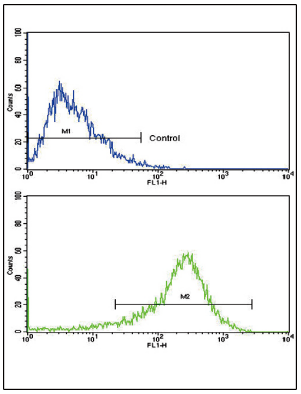
All lanes: Anti-IGR Antibody (C-term) at 1:1000 dilution Lane 1: K562 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 83 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma with PIGR Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of PIGR Antibody (C-term) (Cat#AP8555b) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



Flow cytometric analysis of HepG2 cells using PIGR Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.