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MUC20 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7830b

Product Information

Application	WB, IF, FC, IHC-P-Leica, E
Primary Accession	Q8N307
Other Accession	Q86ST8
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB13033
Calculated MW	71982
Antigen Region	654-684

Additional Information

Gene ID	200958
Other Names	Mucin-20, MUC-20, MUC20, KIAA1359
Target/Specificity	This MUC20 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 654-684 amino acids from the C-terminal region of human MUC20.
Dilution	WB~~1:1000 IF~~1:10~50 FC~~1:10~50 IHC-P-Leica~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	MUC20 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MUC20
Synonyms	KIAA1359

Function	May regulate MET signaling cascade. Seems to decrease hepatocyte growth factor (HGF)-induced transient MAPK activation. Blocks GRB2 recruitment to MET thus suppressing the GRB2-RAS pathway. Inhibits HGF-induced proliferation of MMP1 and MMP9 expression.
Cellular Location	Secreted. Apical cell membrane. Basolateral cell membrane. Cell projection, microvillus membrane
Tissue Location	Highly expressed in kidney, moderately in placenta, lung, prostate, liver, and digestive system. In the kidney, localized in the proximal tubules but not in the glomerulus or distal tubules Detected in most of the male urogenital tract epithelia, with the exception of epididymis.

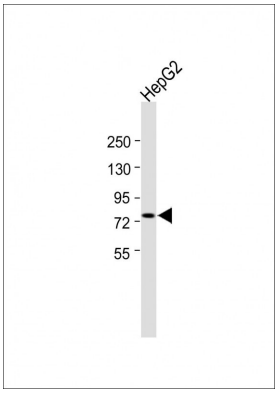
Background

This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins secreted by many epithelial tissues to form an insoluble mucous barrier. The shorter isoform expressed by this gene is localized to the plasma membrane, whereas the longer isoform might be secreted. The C terminus of this protein associates with the multifunctional docking site of the met proto-oncogene and suppresses activation of some downstream met signaling cascades. The protein features a tandem repeat domain that varies between 2 and 6 copies in different individuals. Multiple transcript variants encoding different isoforms have been found for this gene.

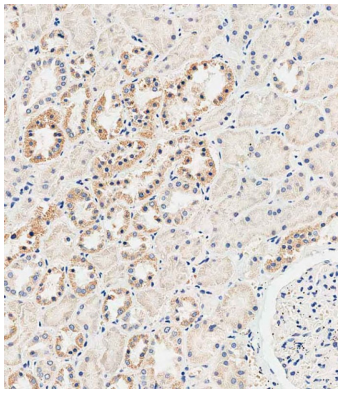
References

Li,G., Am. J. Nephrol. 26 (1), 43-49 (2006)
Suzuki,Y., Genome Res. 14 (9), 1711-1718 (2004)
Higuchi,T., Mol. Cell. Biol. 24 (17), 7456-7468 (2004)
Higuchi,T., J. Biol. Chem. 279 (3), 1968-1979 (2004)

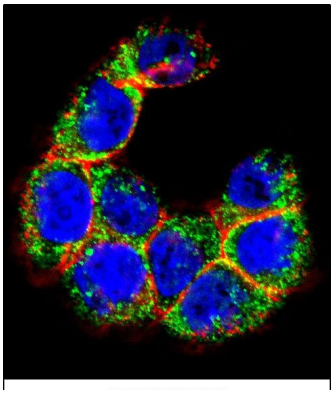
Images



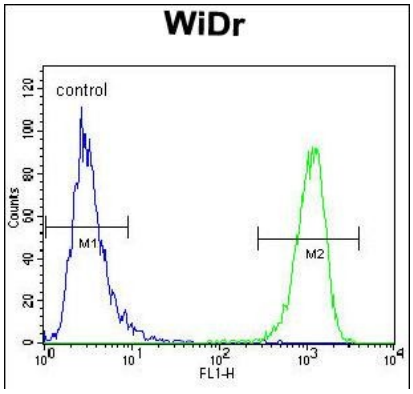
All lanes : Anti-MUC20 Antibody (C-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/15000 dilution. Observed band size : 75kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using AP7830B performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Confocal immunofluorescent analysis of MUC20 Antibody (C-term)(Cat#AP7830b) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



MUC20 Antibody (C-term) (Cat. #AP7830b) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Expression analysis of the transmembrane mucin MUC20 in human corneal and conjunctival epithelia.
- Differential effect of rebamipide on transmembrane mucin biosynthesis in stratified ocular surface epithelial cells.
- Dissecting esophageal squamous-cell carcinoma ecosystem by single-cell transcriptomic analysis

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.