

Rat GDF15 Monoclonal Antibody | anti-GDF15 antibody

Rat Monoclonal [clone 6D12.H10.E4] (IgG) to Human GDF15

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12357	Rat	Chimpanzee, Macaque	Immunohistochemistry, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

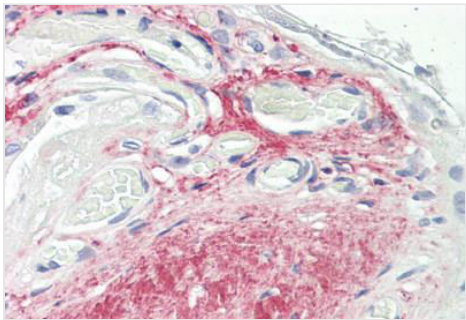
GDF15; Monoclonal Antibody; Rat Monoclonal [clone 6D12.H10.E4] (IgG) to Human GDF15; Anti-GDF15 Antibody (clone 6D12.H10.E4) IHC-plus; MIC1; MIC-1; NAG-1; NRG-1; NSAID-regulated gene 1 protein; PLAB; NSAID-activated gene 1 protein; Placental TGF-beta; PTGFB; GDF-15; PTGF-beta; Human GDF15; anti-GDF15 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Chimpanzee, Macaque
Clonality	Monoclonal
Isotype	IgG2a,I
Clone Number	6D12.H10.E4
Specificity	This antibody reacts with the C-terminus of endogenous NAG-1 protein from human tissues. A BLAST analysis suggests reactivity with NAG-1 from chimpanzee and macaque based on a 100% homology. Partial reactivity is expected against rat based on an 86% homology with the immunizing sequence. Cross-reactivity with NAG-1 from other sources has not been determined.
Purity/Purification	Protein G Purified chromatography
Form/Format	0.02 M Potassium Phosphate, pH 7.2, 0.15 M NaCl, 0.01% Sodium Azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	308
Applicable Applications for anti-GDF15 antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Application Notes	IHC-Paraffin (10 ug/ml) Western Blot (1:1000) ELISA: (1:200) Optimal dilution to be determined by the researcher. Usage Summary: This protein G purified antibody is suitable for ELISA and western blotting of human NAG-1 protein. For detection of NAG-1 in human serum, a sandwich ELISA is suggested using this antibody in combination with anti-NAG-1/GDF15 (N-terminal), H variant or D variant specific antibodies. Specific conditions for reactivity should be optimized by the end user. Expect bands in Western blots of native protein of approximately 13 and 26 kD in size corresponding to NAG-1 monomer and dimer, respectively using the appropriate cell lysate or extract.
Family/Subfamily	TGF beta/ not assigned-TGF beta
Immunogen Species	GDF15 antibody raised against Mouse
Antigen Type	Recombinant protein
Immunogen	GDF15 antibody was raised against this Protein-A purified antibody was prepared by repeated immunizations with an MBP-tagged recombinant protein produced in E Coli corresponding to full-length mouse NAG-1 protein. Cross reactivity to MBP is negative.

Epitope	C-Terminus
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT 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 @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store vial at -20°C prior to opening. Dilute only prior to immediate use. For extended storage, aliquot contents and freeze at -20°C or below. Avoid freeze-thaw cycles. Centrifuge product if not completely clear after standing at room temperature. This product is stable several weeks at 4°C as an undiluted liquid.

IMAGES



IHC (Immunohistochemistry)
Anti-GDF15 antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody dilution 10 ug/ml.

ADDITIONAL INFORMATION

Product Categories/Family for anti-GDF15 antibody	Family: TGF beta
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NCBI AND UNIPROT INFORMATION

NCBI GI #	153792495
NCBI GeneID	9518
NCBI Accession #	NP_004855.2
NCBI GenBank Nucleotide #	NM_004864.2
UniProt Accession #	Q99988; O14629; P78360; Q9BWA0; Q9NRT0
NCBI Official Full Name	growth/differentiation factor 15
NCBI Official Synonym Full Names	growth differentiation factor 15
NCBI Official Symbol	GDF15
NCBI Official Synonym Symbols	PDF; MIC1; PLAB; MIC-1; NAG-1; PTGFB; GDF-15
NCBI Protein Information	growth/differentiation factor 15; NRG-1; PTGF-beta; placental TGF-beta; NSAID-activated gene 1 protein; NSAID-regulated gene 1 protein; prostate differentiation factor; macrophage inhibitory cytokine 1; placental bone morphogenetic protein; NSAID (nonsteroidal anti-inflammatory drug)-activated protein 1
UniProt Protein Name	Growth/differentiation factor 15
UniProt Gene Name	GDF15
UniProt Synonym Gene Names	MIC1; PDF; PLAB; PTGFB; GDF-15; MIC-1; NAG-1; NRG-1
UniProt Entry Name	GDF15_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.