

Product Datasheet

HNF-4-alpha/HNF Mouse Monoclonal Antibody (orb1145784)

Catalog Number	orb1145784
Category	Antibodies
Description	Anti-HNF-4-alpha Antibody (monoclonal, 6C8E9). Tested in IHC, WB applications. This antibody reacts with Human, Rat.
Target	Hepatocyte nuclear factor 4-alpha
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2a
Conjugation	Unconjugated
Reactivity	Human, Rat
Form/Appearance	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Buffer/Preservatives	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Immunogen	E.coli-derived human HNF-4-alpha recombinant protein (Position: Q164-I474). Human HNF-4-alpha shares 95% and 96% amino acid (aa) sequence identity with mouse and rat HNF-4-alpha, respectively.

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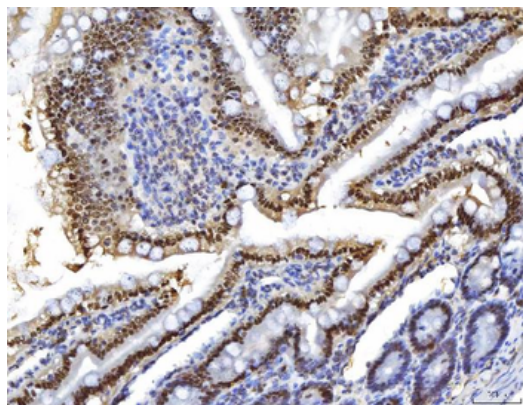
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UniProt ID	P41235
MW	53 kDa
Tested applications	IHC, WB
Dilution range	Western blot, 0.25-0.5 µg/ml, Human, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Rat
Cross Reactivity	No cross-reactivity with other proteins.
Antibody Type	Primary Antibody
Clone Number	6C8E9
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.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC analysis of HNF-4-alpha using anti-HNF-4-alpha antibody. HNF-4-alpha was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-HNF-4-alpha Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.

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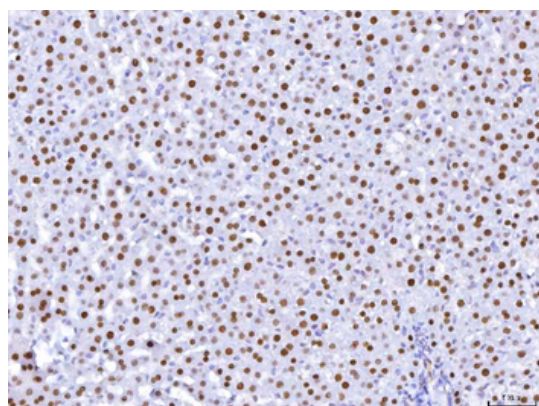
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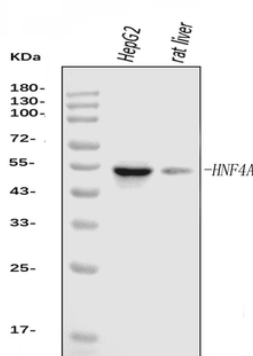
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IHC analysis of HNF-4-alpha using anti-HNF-4-alpha antibody. HNF-4-alpha was detected in a paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-HNF-4-alpha Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



Western blot analysis of HNF-4-alpha using anti-HNF-4-alpha antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 µg of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: rat liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-HNF-4-alpha antigen affinity purified monoclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HNF-4-alpha at approximately 53 kDa. The expected band size for HNF-4-alpha is at 53 kDa.

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