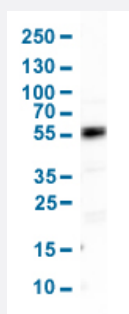


HNF4A polyclonal antibody

Catalog # PAB31124

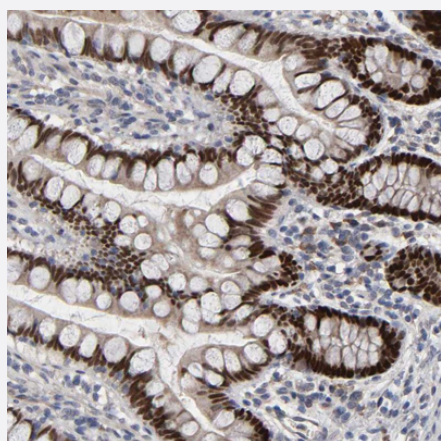
Size 100 uL

Applications



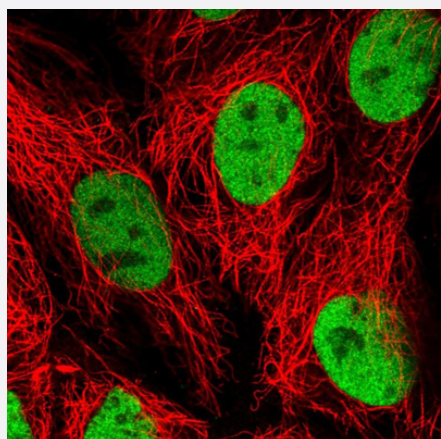
Western Blot (Cell lysate)

Western Blot analysis of human cell line HepG2.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human small intestine shows strong nuclear positivity in glandular cells.



Immunofluorescence

Immunofluorescent staining of human cell line CACO-2 shows localization to nucleoplasm. Antibody staining is shown in green.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human HNF4A.
Immunogen	Recombinant protein corresponding to amino acids 369-473 of human HNF4A.
Sequence	LLQEMLLGSPSDAPHAHHPLHPLMQEHMGTNVIVANTMPTHLSNGQMCEWPRPRGQAATPE TPQPSPPGSGSGSEPYKLLPGAVATIVKPLSAIPQPTITKQEV
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C for short term storage. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of human cell line HepG2.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human small intestine shows strong nuclear positivity in glandular cells.

- Immunofluorescence

Immunofluorescent staining of human cell line CACO-2 shows localization to nucleoplasm. Antibody staining is shown in green.

Gene Info — HNF4A

Entrez GeneID	3172
Protein Accession#	P41235
Gene Name	HNF4A
Gene Alias	FLJ39654, HNF4, HNF4a7, HNF4a8, HNF4a9, MODY, MODY1, NR2A1, NR2A21, TCF, TCF14
Gene Description	hepatocyte nuclear factor 4, alpha
Omim ID	125850 125853 600281
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a nuclear transcription factor which binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene may play a role in development of the liver, kidney, and intestines. Mutations in this gene have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq]
Other Designations	HNF4-alpha OTTHUMP00000031060 OTTHUMP00000031062 hepatic nuclear factor 4 alpha hepatocyte nuclear factor 4 alpha transcription factor-14

Publication Reference

- [Inhibition of the glucose transporter SGLT2 with dapagliflozin in pancreatic alpha cells triggers glucagon secretion.](#)
 Bonner C, Kerr-Conte J, Gmyr V, Queniat G, Moerman E, Thévenet J, Beaucamps C, Delalleau N, Popescu I, Malaisse WJ, Sener A, Deprez B, Abderrahmani A, Staels B, Pattou F.
 Nature Medicine 2015 May; 21(5):512.
 Application: IF, IHC-P, Human, HepG2, Human alpha cells, Pancreases
- [Global gene expression responses to low- or high-dose radiation in a human three-dimensional tissue model.](#)
 Mezentsev A, Amundson SA.
 Radiation Research 2011 Jun; 175(6):677.
 Application: IF, WB-Ce, Human, HCT-116 cells

Pathway

- [Maturity onset diabetes of the young](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Fetal Macrosomia](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)
- [Hyperinsulinism](#)
- [Hyperlipidemias](#)
- [Hypoglycemia](#)

- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Neutropenia](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Persistent Hyperinsulinemia Hypoglycemia of Infancy](#)
- [Prediabetic State](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)