

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HNF-6/ONECUT1 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human ONECUT2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human HNF-6/ONECUT1 Gln139-Gly283 Accession # Q9UBC0
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HNF-6 (also ONECUT1; one "cut" domain family member 1; OC-1) is a monomeric 53-56 kDa member of the One Cut-domain containing class of homeodomain proteins. It is expressed in embryonic hepatic and pancreatic islet anlage, plus adult hepatocytes and intestinal epithelial cells. HNF-6 is a transcriptional activator that is known to interact with Foxa2. Genes regulated by HNF-6 include Glut2, α 1AT, α -fetoprotein and HNF-3 β . Human HNF-6 is 465 amino acids (aa) in length. It contains two DNA-binding regions, one classified as a CUT domain (aa 283-369) and another as a homeobox domain (aa 385-444). HNF-6 is both acetylated and phosphorylated, contributing to protein stability and transactivation activity. Over aa 139-283, human HNF 6 shares 99% aa identity with mouse HNF-6. Rat HNF-6 shows a 26 aa insertion after Ala368. Given an overall aa identity of 99% between rat and human, the possibility exists that this insertion may also exist in human.

PRODUCT SPECIFIC NOTICES

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