

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human HNF-6/ONECUT1 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human ONECUT2 is observed.                                                                                                             |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human HNF-6/ONECUT1<br>Gln139-Gly283<br>Accession # Q9UBC0                                                                                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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,  $\alpha$ 1AT,  $\alpha$ -fetoprotein and HNF-3 $\beta$ . 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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