

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Notum in direct ELISAs.                                                                                                                                                                                                                                       |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 962216                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human Notum<br>Ser81-Thr451<br>Accession # Q6P988                                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 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.

**Western Blot** 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

Notum is an evolutionarily conserved 60 kDa secreted deacylase that regulates Wnt activity (1, 2). It is tethered to the cell surface by binding to Glypican-like sulfated proteoglycans, and it functions as a Glypican-dependent Wnt inhibitor (1-4). Notum hydrolyzes the palmitoyl moiety from Wnt-3a, making the Wnt more hydrophilic and unable to bind to the Frizzled-8 receptor (1, 2). It also induces the release of cell surface GPI-anchored proteins such as Glypican-3, Cadherin-13, and uPAR (4). Notum regulates head regeneration in planaria (3), head formation and neural induction in Xenopus (1), and long range activity of hedgehog proteins in Drosophila (5). It is up-regulated in some human hepatocellular carcinomas and colorectal cancers (6, 7). Within amino acids 81-451, human Notum shares 92% aa sequence identity with mouse and rat Notum.

## PRODUCT SPECIFIC NOTICES

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