

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Notum in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 962216
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Notum Ser81-Thr451 Accession # Q6P988
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

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

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.

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