

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Smoothened in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 1015418
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese Hamster Ovary cell line, CHO-derived human Smoothened Met1-Tyr233 Accession # Q99835
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Immunohistochemistry 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

Smoothened homolog (SMO) is a G protein-coupled receptor that is a component of the hedgehog signaling pathway. SMO can function as an oncogene. Activating SMO mutations can lead to unregulated activation of the hedgehog pathway and serve as driving mutations for cancers such as medulloblastoma, basal-cell carcinoma, pancreatic cancer, and prostate cancer. As such, SMO is an attractive cancer drug target, along with the many hedgehog pathway agonists and antagonists that are known to directly target SMO.

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