

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DISP2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 758204
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DISP2 Arg192-Lys477 Accession # A7MBM2
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.

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

DISP2 (Dispatched Homolog 2), also known as DISPB, belongs to the dispatched family of sterol-sensing proteins. DISP2 and the closely related DISP1 were initially identified in mice by their high homology with Dispatched, a protein required for long-range Hedgehog (Hh) signaling in *Drosophila*. Like DISP1, DISP2 is a multispan (12) transmembrane protein with both cytoplasmic N- and C-terminal tails. DISP2 contains a sterol-sensing domain (SSD) of 173 amino acids (aa), and may be involved in regulating the release of cholesterol-modified Sonic Hedgehog (Shh). Human DISP2 is 1401 aa in length, with three predicted N-linked glycosylation sites. Over aa 192-477, human DISP2 shares 72% and 73% aa identity with mouse and rat DISP2, respectively.

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