

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DSPG3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse DSPG3 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 329707
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human DSPG3 Ala20-Val322 Accession # Q99645
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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	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

Human DSPG3 (also PG-Lb and epiphygan) is a 95-100 kDa class III subfamily member of the SLRP family of molecules. It is synthesized as a 322 aa precursor that contains a 19 aa signal sequence and a 303 aa mature region. The mature molecule contains two intrachain disulfide bonds that flank six leucine-rich repeats lying between aa 135-301. There is a potential for both O- and N-linked glycosylation. DSPG3 is found principally in cartilage. Mature human DSPG3 is 85%, 96%, 95% and 84% aa identical to rat, dog, cow and mouse DSPG3, respectively.

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