bio-techne®
R&D SYSTEMS

Human IGSF3 Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4788X
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IGSF3 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IGSF3 Gln20-Ala1125 Accession # AAI10652
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.*

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	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

IGSF3 (Immunoglobulin superfamily member 3; also EWI-3) is a 133 kDa (predicted) member of the EWI subfamily of the Ig-Superfamily of molecules. It is reported to be widely expressed, with concentration in placenta and lung. Human IGSF3 an 1194 amino acid (aa) type I transmembrane protein that contains a 19 aa signal sequence followed by an 1175 aa mature region (aa 20-1194) (SwissProt # O75054). The molecule's extracellular region is 1105 aa in length (aa 20-1124), and contains eight C2-type Ig-like domains (aa 22-1097). This region also possesses at least two utilized phosphorylation sites at Thr617and Ser625, plus an EWI motif in the second Ig-like domain. IGSF3 likely exists as a disulfide-linked homodimer. There are two potential isoform variants. One contains a 20 aa insertion after Pro406, while another shows the same insert coupled to a premature truncation after Pro833. GenBank Accession # AAI10652 is identical to the SwissProt sequence above save for a double Glu substitution for Asp1020 in the eighth Ig-like domain. Over aa 20-1125, human IGSF3 shares 92% aa identity with mouse IGSF3.

PRODUCT SPECIFIC NOTICES

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