RD SYSTEMS a biotechne brand

Human IGSF8/CD316 Alexa Fluor® 750-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2587A Catalog Number: FAB3117S

100 µg

Species Reactivity	Human		
Specificity	Detects human IGSF8/CD316 in direct ELISAs.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 2587A		
Purification	Protein A or G purified from cell culture supernatant		
lmmunogen	Human embryonic kidney cell, HEK293-derived human IGSF8/CD316 protein Arg28-Thr579 Accession # Q969P0		
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm		

*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.			
	Recommended Concentration	Sample	
Flow Cytometry	0.25-1 μg/10 ⁶ cells	SHSY-5Y human neuroblastoma cell line	

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

IGSF8 (Immunoglobulin superfamily member 8), also known as EWI-2, KCT-4, LIR-D1, and PGRL, is a 75-kDa cell surface protein belonging to the immunoglobulin superfamily (1). IGSF8 is widely expressed, with pronounced mRNA expression in the brain and protein expression on peripheral blood lymphocytes and hepatocytes where it colocalizes with CD81 (1-3). It strongly associates with tetraspanins CD9 and CD81 which may act as physical linkers to form a complex with α3β1 integrin that may regulate cell aggregation and motility on laminin-5 (4). Human IGSF8 is synthesized as a 613 aa protein that includes a 27 aa signal peptide, a 552 aa extracellular domain (ECD), a 21 aa transmembrane segment, and a 13 aa cytoplasmic tail. Within the ECD, human IGSF8 shares 91% and 90% aa sequence identity with mouse and rat IGSF8, respectively. IGSF8 is an inducible receptor for Heat Shock Protein A8 (HSPA8) on activated dendritic cells (5). IGSF8 can interact with α-Actinin to regulate T cell immune synapses and HIV viral infection (6). In human glioma patients, low IGSF8 expression correlates with shorter survival time. Studies have shown that re-expression of IGSF8 in malignant glioblastoma cell lines inhibited glioblastoma colony formation in soft agar and caused diminished cell motility and invasion (7).

References:

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- 2. Stipp, C.S. et al. (2001) J. Biol. Chem. 276:40545
- 3. Charrin, S. et al. (2003) Biochem. J. 373:409.
- 4. Stipp, C.S. et al. (2003) J. Cell Biol. 163:1167
- 5. Kettner, S. et al. (2007) Mol Cell Biol. 27:7718.
- 6. Gordón-Alonso, M. et al. (2012) J Immunol 189:689.
- 7. Kolesnikova, T. et al. (2009) Neoplasia.11:77.

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