Datasheet for ABIN7581902

anti-IGSF8 antibody (Extracellular)

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Overview

Quantity:	50 µL
Target:	IGSF8
Binding Specificity:	AA 227-242, Extracellular
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IGSF8 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Live Cell Imaging (LCI)

Product Details

Purpose:	A Rabbit polyclonal antibody to IGSF8 (extracellular)
Immunogen:	(C)EAGAPYAERLASGELR, corresponding to amino acid residues 227 - 242 of mouse IGSF8
Sequence:	(C)EAGAPYAERL ASGELR
Isotype:	IgG
Specificity:	Extracellular, N-terminus.
Predicted Reactivity:	Rat-14,Human-15,16 identical
Characteristics:	Anti-IGSF8 (extracellular) Antibody (ABIN7581902) is a highly specific antibody directed against an extracellular epitope of the mouse protein. The antibody can be used in western blot and flow cytometry applications. It has been designed to recognize IGSF8 from mouse, rat and human samples.

Product Details

Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	IGSF8
Alternative Name:	IGSF8 (IGSF8 Products)
Background:	Immunoglobulin superfamily member 8, Prostaglandin Regulatory-Like Protein, PGRL, Glu-Trp-Ile EWI motif-containing protein 2, EWI2, CD81 Partner 3, KCT4, CD316,IGSF8, also referred to as EWI-2, CD316, and PGRL, is a member of the immunoglobulin superfamily (IgSF), which is characterized by extracellular immunoglobulin-like domains. IGSF8 specifically contains four such domains along with a short cytoplasmic tail, enabling its roles in cell-cell adhesion, intracellular signaling, and the organization of cell surface microdomains1,2. It associates with tetraspanins, such as CD9 and CD81, forming the tetraspanin web, a molecular network that organizes cell-surface proteins into functional microdomains and regulates processes like adhesion, migration, and signaling3. Furthermore, IGSF8 interacts with the ezrin-radixin-moesin (ERM) protein family, linking the tetraspanin web to the actin cytoskeleton and contributing to cell polarity and motility4,5. Functionally, IGSF8 acts as an immune checkpoint by suppressing natural killer (NK) cell cytotoxicity through interactions with receptors like KIR3DL2, allowing tumor cells to evade immune detection3. Its expression correlates with poor outcomes in cancer and low antigen presentation, making it a promising target for therapeutic intervention3,4. Beyond its role in immune modulation, IGSF8 contributes to reproductive biology by participating in sperm-egg fusion2. IGSF8 is expressed across various tissues, including neural and immune cells1. Disruption of its function enhances cellular migration and inhibits metastasis4, highlighting its therapeutic relevance. As a cancer immunotherapy target, IGSF8 has shown potential, particularly when combined with immune checkpoint inhibitors like anti-PD1 antibodies3. Research into IGSF8 is critical for understanding tumor immune evasion, immunotherapeutic development, and its roles in neural and reproductive biology1,5.
Gene ID:	140559
UniProt:	Q8R366

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).