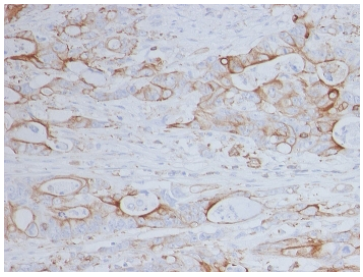
CD151 Antibody [clone 11G5a] (V8526)

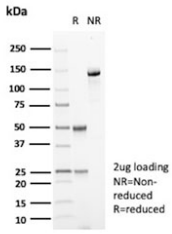
Catalog No.	Formulation	Size
V8526-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8526-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8526SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	11G5a
Purity	Protein G affinity chromatography
UniProt	P48509
Localization	Cell surface
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This CD151 antibody is available for research use only.



IHC staining of FFPE human colon with CD151 antibody (clone 11G5a). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free CD151 antibody (clone 11G5a) as confirmation of integrity and purity.

Description

CD151 antibody detects CD151, a member of the tetraspanin family encoded by the CD151 gene. CD151 is a four-transmembrane domain protein that interacts with integrins and organizes membrane microdomains. It plays roles in adhesion, migration, angiogenesis, and metastasis. Because of its influence on tumor progression and vascular biology, CD151 antibody is widely used in oncology, immunology, and cell biology research.

CD151 associates with integrins such as ÃŽÂ±3ÃŽÂ²1, ÃŽÂ±6ÃŽÂ²1, and ÃŽÂ±6ÃŽÂ²4, regulating cell-extracellular matrix interactions. By clustering with integrins and signaling molecules, it enhances cell motility and contributes to invasion and metastasis in cancer. In vascular biology, CD151 promotes angiogenesis and endothelial stability, while in epithelial tissues, it supports polarity and barrier function. These diverse roles make CD151 a multifunctional regulator of cell communication.

The CD151 antibody clone 11G5a provides specific and reproducible recognition of this tetraspanin. Clone 11G5a has been referenced in peer-reviewed publications investigating carcinoma progression, endothelial biology, and integrin regulation. Its performance supports immunohistochemistry, flow cytometry, and studies of protein-protein interactions.

Research using clone 11G5a has shown how CD151 overexpression correlates with aggressive tumors, including prostate, breast, and lung cancer. In endothelial biology, it has been implicated in vascular remodeling and angiogenesis, processes critical to both normal development and disease. Studies employing this antibody have also clarified CD151Ã¢Â€Â™s role in immune cell migration and adhesion, demonstrating its broad biological significance.

NSJ Bioreagents provides this CD151 antibody to support oncology, vascular biology, and immunology research. Alternate names include tetraspanin 24 antibody, membrane glycoprotein SFA1 antibody, integrin-associated protein antibody, platelet endothelial tetraspanin antibody, and CD151 molecule antibody.

Application Notes

Optimal dilution of the CD151 antibody should be determined by the researcher.

Storage

Store the CD151 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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