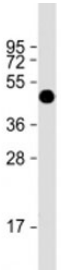
FAT1 Antibody 1634CT464.1.9 / FAT Atypical Cadherin 1 Monoclonal Antibody [clone 1634CT464.1.9] (F53813)

Catalog No.	Formulation	Size
F53813-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53813-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	1634CT464.1.9
Purity	Protein G affinity chromatography
UniProt	Q14517
Applications	Western blot: 1:1000-2000
Limitations	This FAT1 Antibody 1634CT464.1.9 / FAT Atypical Cadherin 1 Monoclonal Antibody is available for research use only.



FAT1 Antibody 1634CT464.1.9 WB Analysis of Recombinant Human FAT1 Protein. Western blot analysis of recombinant human FAT1 protein using FAT Atypical Cadherin 1 Monoclonal Antibody clone 1634CT464.1.9 at a 1:2000 dilution. A distinct immunoreactive band is detected at approximately 45 kDa, demonstrating recognition of the recombinant FAT1 protein fragment. This experiment does not establish detection of endogenous full-length FAT1.

Description

FAT1 Antibody 1634CT464.1.9 / FAT Atypical Cadherin 1 Monoclonal Antibody targets FAT1, a large transmembrane protein belonging to the FAT family of atypical cadherins. FAT1 participates in cell-cell adhesion, cellular polarization, directed migration, and the organization of the actin cytoskeleton. Unlike classical cadherins, which primarily mediate calcium-dependent adhesion through relatively short extracellular regions, FAT1 contains an extensive extracellular domain with numerous cadherin repeats. Its intracellular region interacts with signaling and cytoskeletal regulatory

proteins, allowing FAT1 to influence both cell architecture and cellular behavior.

FAT1 is particularly important in the coordination of cell polarity and migration. Its cytoplasmic domain can associate with proteins involved in actin dynamics, including Ena/VASP family members, which regulate actin filament assembly and remodeling. These interactions contribute to the organization of cellular protrusions and the establishment of directional movement. FAT1 also participates in the maintenance of intercellular contacts and the regulation of epithelial organization. Through these activities, FAT1 helps coordinate adhesive interactions with the cytoskeletal changes required for tissue development, remodeling, and cellular movement.

Alterations in FAT1 expression or function have been associated with several malignancies, including squamous cell carcinomas and other epithelial cancers. FAT1 is frequently described as a tumor suppressor because loss-of-function mutations can disrupt normal cell adhesion and growth-regulatory mechanisms. However, its biological effects are context-dependent, and FAT1 expression has also been associated with tumor progression, invasive behavior, and resistance to certain therapeutic interventions. FAT1 has been implicated in the regulation of signaling pathways involving Hippo pathway components, Wnt signaling, and cellular responses to changes in tissue architecture. The consequences of FAT1 alterations therefore depend on the cellular environment, genetic background, and signaling networks involved.

Research involving FAT1 Antibody 1634CT464.1.9 is relevant to investigations of atypical cadherin biology, cell polarity, cytoskeletal regulation, and cancer-associated changes in cellular organization. Understanding how FAT1 coordinates adhesion-dependent signaling with actin remodeling may provide further insight into epithelial integrity, developmental processes, and the molecular mechanisms underlying tumor progression.

Explore additional antibodies targeting proteins involved in cell adhesion, cytoskeletal organization, cellular polarity, and migration in our Cell Biology Antibodies collection.

Application Notes

Titration of the FAT1 Antibody 1634CT464.1.9 / FAT Atypical Cadherin 1 Monoclonal Antibody may be required due to differences in protocols and substrate sensitivity.

Immunogen

A human recombinant protein of amino acids 4203-4539 was used as the immunogen for the FAT1 antibody.

Storage

Aliquot the FAT1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

FAT1 antibody, FAT atypical cadherin 1 antibody, FAT tumor suppressor homolog 1 antibody, FAT tumor suppressor 1 antibody, Protocadherin Fat 1 antibody, FAT cadherin 1 antibody, FAT1 cadherin antibody, Atypical cadherin FAT1 antibody, FAT1 protein antibody, FAT1 cell adhesion protein antibody

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