Human FAK Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 495919

Catalog Number: FAB4467S

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FAK in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 495919
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human FAK Asp213-Thr412 Accession # Q05397
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.*

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

Focal adhesion kinase 1 (FAK), also known as FAK1 and PTK2, is a ubiquitously expressed non-receptor protein tyrosine kinase that is concentrated in focal adhesions. This cellular localization is directed by a C-terminal 125 amino acid "Focal Adhesion Targeting" (FAT) sequence. FAK plays an important role in migration, cell spreading, differentiation and apoptosis. It associates with several different signaling proteins, such as Src-family PTKs, p130Cas, Shc, Grb2, PI 3-kinase, and Paxillin. These associations enable FAK to function within a network of integrin-stimulated signaling pathways, leading to the activation of targets such as the ERK and JNK mitogen-activated protein kinase pathways. Increased expression and/or activity of FAK in various cancers has been correlated with enhanced proliferation, migration and invasiveness of human tumor cells.

PRODUCT SPECIFIC NOTICES

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