Human/Mouse/Rat p130Cas Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 685718

Catalog Number: FAB5730R

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human p130Cas in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Ajuba is observed.
Source	Monoclonal Mouse IgG_1 Clone # 685718
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human p130Cas Met66-Val412 Accession # P56945
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.*

Western Blot	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

p130Cas (protein 130 kDa Crk-associated substrate; also BCAR1) is a cytoplasmic member of the CAS family of proteins. Although its predicted MW is 93 kDa, it runs anomalously at 105-130 kDa in SDS-PAGE. It is found in a wide variety of cell types. p130Cas is involved in cell spreading and migration (but not adhesion), and its cleavage into a 31 kDa fragment promotes anoikis and cell death. Human p130Cas is 870 amino acids (aa) in length. It contains one SH3 domain (aa 3-65), a Pro-rich region (aa 74-87), at least 10 phosphotyrosine (aa 128-410) and four phosphoserine (aa 134-639) sites, an SH3 binding motif (aa 635-643) and a HLH dimerization segment that interacts with CASL. There are multiple splice variants. There is a 22 aa substitution for aa 1-4, an alternate start site at Met30, a deletion of aa 2-211, and a four aa substitution for aa 1-4 with a deletion of aa 65-212. Over aa 66-412, human p130Cas shares 91% aa identity with mouse p130Cas.

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