Mouse CXCL11/I-TAC Alexa Fluor® 647-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 131327

Catalog Number: FAB572R

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCL11/I-TAC in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse CXC1, 2, 6, 9, 10, CXCL12/SDF-1α, 13, 14, recombinant human CXCL1, 2, 3, 5, 6, 7, 8, 9, 10, 11, CXCL12/SDF-1α, CXCL12/SDF-1β, 13, 1
Source	Monoclonal Rat IgG_{2A} Clone # 131327
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse CXCL11/I-TAC Phe22-Met100 Accession # Q9JHH5
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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
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

CXCL11 (also known as I-TAC, SCYB9B, H174, IP-9, and β-R1) is a member within the non-ELR CXC chemokine subgroup and has been designated CXCL11. CXCL11, together with MIG and IP-10, constitute a subset of chemokines that are ligands for CXCR3, a chemokine receptor that is primarily expressed on activated Th1 cells and NK cells. The three chemokines were also reported to act as antagonists for CCR3, a chemokine receptor that is preferentially expressed on activated Th2 cells. Mouse CXCL11 cDNA encodes a 100 amino acid (aa) precursor protein with a putative 21 aa signal peptide that is cleaved to yield a 79 aa mature protein. Mature mouse and human CXCL11 share 71% aa sequence identity. Mouse CXCL11 also shares 36% and 29% aa sequence identity with mouse IP-10 (CRG-2) and mouse MIG, respectively. The gene for mouse CXCL11 has been mapped to chromosome 5, in close proximity to the IP-10 and MIG genes. Mouse CXCL11 is induced in multiple tissues during endoxemia, with the greatest expression in lung, heart, small intestine, and kidney. The endotoxemia-induced mouse CXCL11 expression is strongly attenuated by treatment with glucocorticoid.

PRODUCT SPECIFIC NOTICES

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475