Human/Mouse PBEF/Visfatin Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 362616

Catalog Number: IC4044G

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PBEF/Visfatin in direct ELISAs and Western blots. In direct ELISAs and Western blots, 100% cross-reactivity with recombinant human PBEF is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 362616
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse PBEF/Visfatin Met1-His491 Accession # Q99KQ4
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	3T3-L1 mouse embryonic fibroblast adipose-like cell line fixed with paraformaldehyde and permeabilized with saponin

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

PBEF, also called Nampt or visfatin, is a ubiquitous 52 kDa nicotinamide phosphoribosyltransferase. It is the rate-limiting component in the biosynthesis of NAD^+, and functions in the cytoplasm to regulate energy metabolism during stress responses and immune activation. Although it lacks a signal sequence, PBEF appears to be secreted by visceral adipose tissue and functions as a noncompetitive insulin mimetic. Mouse PBEF shows 96% and > 99% aa identity with human and rat PBEF, respectively.

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