

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Rat                                                                                                                                                                                                                                                                         |
| <b>Specificity</b>        | Detects rat PBEF/Visfatin in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant mouse PBEF and recombinant human PBEF is observed.                                                                                      |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>S. frugiperda</i> insect ovarian cell line Sf 21 derived recombinant rat PBEF/Visfatin<br>Gln25-His491<br>Accession # Q80Z29                                                                                                                                             |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

PBEF (pre-B cell colony-enhancing factor; also visfatin and nicotinamide phosphoribosyltransferase/Nampt) is a 52-54 kDa member of the NAPRTase family of molecules. It is a dimer that is found both intracellularly and extracellularly, where it participates in NAD synthesis and induces proinflammatory cytokine synthesis, respectively. PBEF has also been reported to show insulin-like effects on adipocytes by binding to the insulin receptor. Cells known to express PBEF include visceral adipocytes, neutrophils, and capillary endothelium. Rat PBEF is 491 amino acids in length. It contains no signal sequence but is secreted. Potential phosphorylation sites exist at Tyr34, Tyr188 and Ser398. Full-length (aa 1-491) rat PBEF shares 99% and 95% aa identity with mouse and human PBEF, respectively.

## PRODUCT SPECIFIC NOTICES

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