BIOTEM

BIOTEM 885, rue Alphonse Gourju 38140 Apprieu FRANCE

Tel: +33 (0)4 76 65 10 91 Fax: +33 (0)4 76 67 48 86

info@biotem.fr www.biotem-antibody.com

Product description

| Description | Monoclonal antibody to Nicotinamide phosphoribosyl transferase (NAMPT) |
|------------------------|---|
| Host species | Rat |
| Validated applications | ELISA, WB, HIC, Immunostaining, IP, histology & enzymatic inhibition |
| Species reactivity | Human & Mouse |
| Specificity | Antibody specific for the detection in cells or biological fluids of Recombinant Nicotinamide phosphoribosyl transferase (Nampt) or pre-B cell colony-enhancing factor (PBEF) |

Target exploration

Gene ID: 59027.

Accession Number: Q99KQ4

The Pre-B-cell colony-Enhancing Factor (PBEF) or Nampt is a protein that catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, one step in the biosynthesis of nicotinamide adenine dinucleotide. This protein is thought to be involved in many important biological processes (metabolism, stress response and aging).

Properties Format Liquid or Lyophilized Store at +4°C short term (1-2 weeks). Aliguot and store at -20°C or -80°C. Avoid repeated Storage instructions freeze / thaw cycles Storage buffer PBS pH 7.4, preservative upon request IgG fraction purified by affinity chromatography on protein G Purity Isotype lgG2a Light type К Chain Restrictions For research use only

TECHNICAL DATASHEET

Ref # BIO.020.1

Clone 14A5

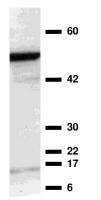
Monoclonal Anti-NAMPT

Applications

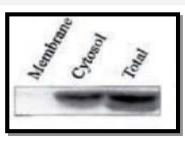
| WB | Recommended dilution : 1/2,000 to 1/10,000 |
|-------|--|
| IHC | Recommended dilution : 1/100 to 1/400 |
| ELISA | Recommended dilution : 1/5,000 to 1/20,000 |
| | |

Optimal dilutions/concentrations should be determined by the end user

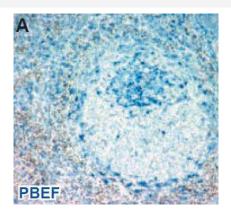
Illustrations



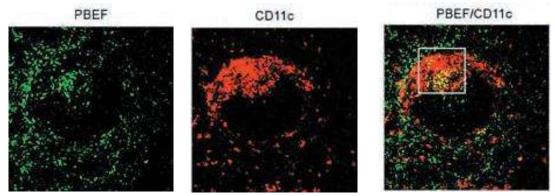
Cell extract from DC cell line was separated by SDS-PAGE and blotted with 14A5 mAb (0.1µg/ml); secondary Ab: antirat-HPRT



Nampt is expressed in the cytoplasm. Equal amouns of cytosolic and membrane proteins from anti-CD3 stimulated spleen cells were separated by SDS-PAGE and blotted with 14A5 mAb (0.1µg/ml); secondary Ab: anti-rat-HPRT:



Immunostaining of mouse spleen section (14A5: 10 μg /ml) - secondary Ab: biotinylated anti-rat



Nampt is expressed in distinct spleen cell populations (CD11c positive and negative) Immunohistochemistry of mouse spleen section (14A5: 10µg /ml) - secondary Ab: anti-rat-alexa 488; anti-CD11c-alexa 568

Publications

Rongvaux A., Shea R.J., Mulks M.H., Gigot D., Urbain J., Leo O. and Andris F. - Pre-B-cell colony-enhancing factor, whose expression is up-regulated in activated lymphocytes, is a nicotinamide phosphoribosyltransferase, a cytosolic enzyme involved in NAD biosynthesis. Eur. J. Immunology. 2002. 32: 3225-3234