Human Aminopeptidase LRAP/ERAP2 Antibody

Monoclonal Mouse IgG_1 Clone # 3F5

Catalog Number: MAB3830

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Aminopeptidase LRAP/ERAP2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human PILS is observed.
Source	Monoclonal Mouse IgG_1 Clone # 3F5
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human Aminopeptidase LRAP/ERAP2 Accession # Q6P179
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

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
Western Blot	1 µg/mL	Recombinant Human Aminopeptidase LRAP/ERAP2 (Catalog # 3830-ZN)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Leukocyte-derived arginine aminopeptidase (LRAP) and endoplasmic reticulum-aminopeptidase 2 (ERAP2) are the two names given to the protein encoded by the LRAP gene (1, 2). Induced by interferon-γ, LRAP is able to trim various MHC class I antigenic peptide precursors. It belongs to the oxytocinase subfamily of M1 aminopeptidases, which also includes aminopeptidases PILS/ARTS1/ERAP1 and LNPEP/PLAP (1, 3). In addition to antigen presentation, the members of this subfamily are also important in maintenance of pregnancy, memory retention, and blood pressure regulation (3).

References:

1. Tanioka, T. *et al.* (2003) J. Biol. Chem. **278**:32275.
2. Tanioka, T. *et al.* (2005) FEBS J. **272**:916.
3. Tsujimoto, M. and A. Hattori (2005) Biochim. Biophys. Acta **1751**:9.

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 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449