

DESCRIPTION

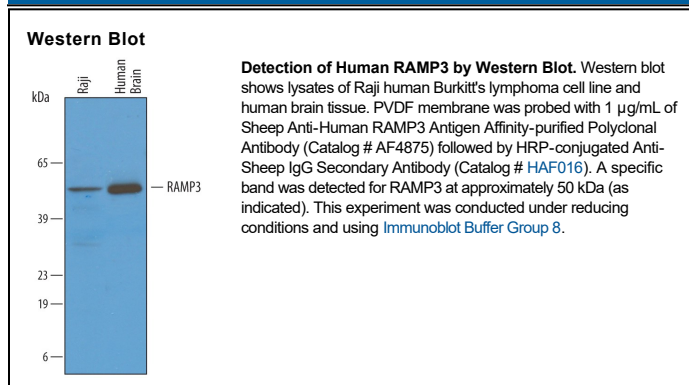
Species Reactivity	Human
Specificity	Detects human RAMP3 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human (rh) RAMP1, rhRAMP2, and recombinant mouse RAMP2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RAMP3 Arg24-Val118 Accession # O60896
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	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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. <ul style="list-style-type: none"> 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

RAMP3 (receptor activity modifying protein 3) is a 20-26 kDa member of the RAMP family of proteins. It is expressed on multiple cell types in conjunction with CRLR and NHERF-1, thereby generating a receptor complex for adrenomedullin (AM). Mature human RAMP3 is a 125 amino acid (aa) type I transmembrane glycoprotein that contains a 95 aa extracellular domain (ECD) (aa 24-118) and a 10 aa cytoplasmic region. Although the ECD contains no typical structural motifs, aa 59-65 are critical for AM binding. There is one potential splice variant that shows a 49 aa substitution for the first 19 aa of the signal sequence. The human ECD is 88% aa identical to the mouse ECD. Members of RAMP family of proteins are known to form complexes with apparent molecular weights of 25 to 50 kDa that are resistant to denaturing and reducing agents.