

DESCRIPTION

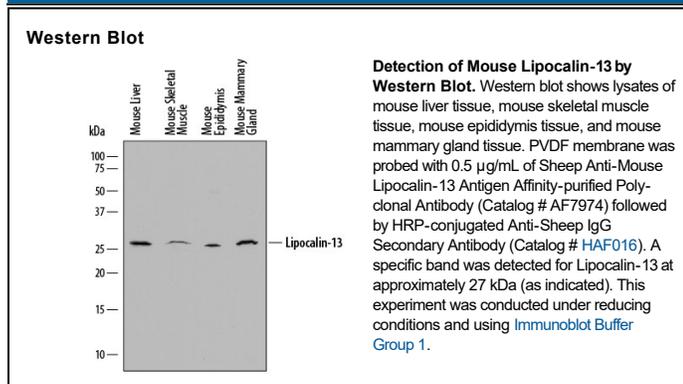
Species Reactivity	Mouse
Specificity	Detects mouse Lipocalin-13 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Lipocalin-13 Ala19-Asp176 Accession # Q8K1H9
Formulation	Lyophilized from a 0.2 µm 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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

LCN-13 (Lipocalin 13; also Odorant-binding protein 2a) is a secreted, 26-28 kDa member of the LCN family, calycin superfamily of molecules. Its name is derived from Greek, and denotes the fact that lipocalins are known to be "fat-wrapping", or fat binding proteins that interact with small lipophilic molecules within a central cavity. LCN-13 is expressed by hepatocytes and smooth muscle cells. It is known to have antidiabetogenic effects, including the suppression of hepatic glucose production, the uptake of circulating glucose by adipocytes, and the induction of fatty acid oxidation by liver, possibly by stimulating CPT1α production. Mouse LCN-13 is synthesized as a 176 amino acid (aa) precursor that contains a 19 aa signal sequence and a 157 aa mature region. Although no splice forms have been reported for LCN-13 to date, a smaller, presumably proteolytically processed 23-26 kDa isoform has been noted on SDS-PAGE. Mature mouse LCN-13 shares 69% and 39% aa sequence identity with rat LCN-13 and human odorant-binding protein 2b, respectively.