

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Melusin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Melusin Ser2-Glu347 Accession # Q9UKP3
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	0.1 µg/mL	Recombinant Human Melusin
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human skeletal muscle

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

Melusin is a 38 kDa cytoplasmic protein that interacts specifically with the cytoplasmic domain of the β1 integrin subunit. It is expressed solely in striated muscle where it detects mechanical stress. The 347 amino acid residue human Melusin contains two amino terminal cysteine-rich repeats that are separated by an intervening sequence at the extreme carboxy-terminal. Melusin has a stretch of negatively charged residues (aspartic and glutamic acids). Human Melusin shares 93%, 92% and 96% amino acid sequence homology with rat, mouse and canine Melusin, respectively.