Mouse CRISP-4 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5017

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CRISP-4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant mouse CRISP-1, -2, and -3 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse CRISP-4 Leu23-Lys250 Accession # NP_084309
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.

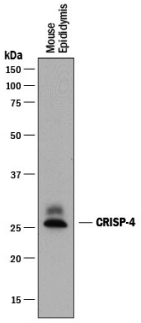
APPLICATIONS

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	0.2 µg/mL	See Below

DATA

Western Blot



Detection of Mouse CRISP-4 by Western Blot. Western blot shows lysates of mouse epididymis tissue. PVDF membrane was probed with 0.2 µg/mL of Sheep Anti-Mouse CRISP-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5017) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for CRISP-4 at approximately 26-30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.** • 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

CRISP-4 (cysteine-rich secretory protein 4) is a secreted, 31 kDa member of the CRISP family of proteins. In mouse, its expression is limited to the epididymis, seminal vesicle and vas deferens and it appears to bind to differentiating sperm. Mature mouse CRISP-4 is 230 amino acids (aa) in length. It contains an SCP (sperm coating protein) region (aa 42-178) followed by a C-terminal CRISP domain (aa 196-250). There appears to be an alternate start site four amino acids upstream of the standard start site. Over aa 22-550, mouse CRISP-4 shares 90% aa identity with rat CRISP-4 and 64% aa identity with human CRISP-1, the human ortholog to mouse CRISP-4.

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