

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FABP9 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse FABP9 and less than 1% cross-reactivity with recombinant human FABP1, 2, 3, 4, 5, 6, 7, and 8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FABP9 Met1-Val132 Accession # Q0Z7S8
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 as a 0.2 µm filtered solution in PBS.

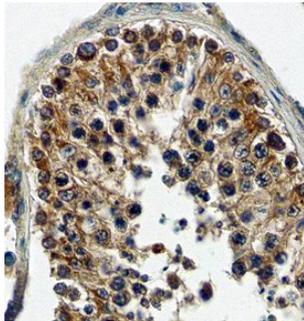
APPLICATIONS

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 FABP9
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



FABP9/T-FABP in Human Testis. FABP9/T-FABP was detected in immersion fixed paraffin-embedded sections of human testis using Human FABP9/T-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5707) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to the plasma membrane and cytoplasm of spermatocytes. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

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

FABP9 (fatty acid binding protein-9; also T-FABP and PERF15) is a cytosolic 15 kDa member of the fatty acid binding protein family, calycin superfamily of proteins. It is found in midpachytene spermatocytes and round spermatids, and constitutes part of the perinuclear theca. Functionally, FABP9 is likely to link intracellular membranes, and may signal abnormal sperm formation during spermatogenesis. Human FABP9 is 132 amino acids (aa) in length and exhibits two layers of antiparallel β-strands that envelope a hydrophobic pocket for lipid binding. Human FABP9 shares 71% aa identity with mouse FABP9.