

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FoxN1 in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 717008
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse FoxN1 Val2-Asp164 Accession # Q61575
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.

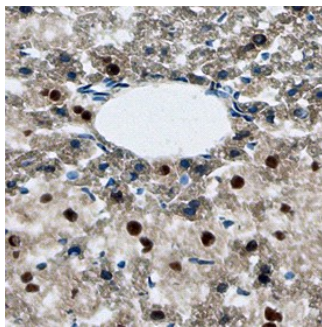
APPLICATIONS

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
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



FoxN1 in Mouse Liver. FoxN1 was detected in perfusion fixed frozen sections of mouse liver using Rat Anti-Mouse FoxN1 Monoclonal Antibody (Catalog # MAB7295) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in hepatocytes. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 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

Forkhead box N1 (FoxN1) is a 69 kDa transcriptional regulator that is primarily expressed in thymic epithelial cells and keratinocytes. FoxN1 function is required for proper T cell, hair follicle, and nail differentiation. Mutations in FoxN1 result in severe combined immunodeficiency (SCID/Nude). Mouse FoxN1 contains one DNA-binding forkhead domain (aa 271-367). Within amino acids 1 - 164, mouse FoxN1 shares 84% and 95% aa sequence identity with human and rat FoxN1, respectively.