Human/Mouse HMGA1B Antibody

Antigen Affinity-purified Polyclonal Sheep IgG

Catalog Number: AF5956

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse HMGA1B in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human HMGA1B Met1-Glu96 Accession # P17096
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.

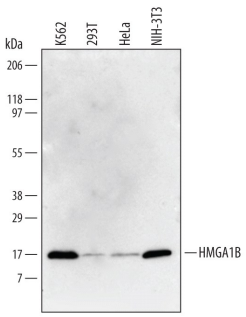
APPLICATIONS

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	1 µg/mL	See Below

DATA

Western Blot



Detection of Human/Mouse HMGA1B by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line, 293T human embryonic kidney cell line, HeLa human cervical epithelial carcinoma cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse HMGA1B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5956) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for HMGA1B at approximately 17 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

HMGA1B (High mobility group A1, isoform B; also HMG-Y) is a 10-11 kDa member of the HMGA family of proteins. It is ubiquitously expressed, and occurs principally in tumor and embryonic tissue. HMGA1B is a nonhistone architectural protein that binds to AT-rich DNA sequences. It participates in both gene repression and activation by changing DNA conformation, and is known to regulate miRNA as well. Human HMGA1B is 96 amino acids (aa) in length and contains three A-T hook DNA-binding domains (aa 21-31; 42-52; 67-78). It is constitutively phosphorylated, and may undergo acetylation. There are three potential splice variants. All three show the same 11 aa insertion after Pro34. In addition, one form shows an additional 56 aa substitution for aa 55-96, while a second shows a 14 aa substitution for aa 80-96. Full-length human HMGA1B shares 97% aa identity with mouse HMGA1B.

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