Human/Mouse HMGA1B Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5956U
100 µg

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
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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