

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse HMGA2 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human HMGB1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human HMGA2 Ser2-Asp109 Accession # P52926
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
Immunocytochemistry	5-15 µg/mL	Immersion fixed SCC-25 human squamous cell sarcoma cell line
Simple Western	10 µg/mL	See Below


DATA

Western Blot

Detection of Human and Mouse HMGA2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, MDA-MD-231 human breast cancer cell line, NIH-3T3 mouse embryonic fibroblast cell line, and P19 mouse embryonal carcinoma cell line. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse HMGA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3184) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for HMGA2 at approximately 21 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Simple Western

Detection of Mouse HMGA2 by Simple Western™. Simple Western lane view shows lysates of NIH-3T3 mouse embryonic fibroblast cell line, loaded at 0.2 mg/mL. A specific band was detected for HMGA2 at approximately 30 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse HMGA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3184) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



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

HMGA2, previously known as HMGI-C, belongs to the group of high mobility chromosomal proteins that have the AT-hook DNA-binding motif. It is highly and ubiquitously expressed during embryogenesis. Chromosomal rearrangements of the HMGA2 gene and overexpression are frequently associated with benign and malignant tumors, respectively. Human and mouse HMGA2 share 95% amino acid sequence identity.