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Product datasheet for TA396749

Hmgn1 Mouse Monoclonal Antibody [Clone ID: IPO-38]

Product data:

Product Type:	Primary Antibodies
Clone Name:	IPO-38
Applications:	ELISA, IHC, WB
Recommended Dilution:	**WB**: 1:500- 1:2,000 **IHC**: 10 µg/mL **ELISA**: 1:10,000 - 1:50,000
Reactivity:	Human
Host:	Mouse
Isotype:	IgM, kappa
Clonality:	Monoclonal
Immunogen:	A BALB/c mouse was immunized with spleen cells of a human patient with hairy cell leukemia.
Specificity:	Anti-IPO-38 monoclonal antibody was purified by Protein A chromatography. This antigen was detected after 12h of PHA-induced activation in the early G1 phase but absent in non-stimulated lymphocytes. Cross reactivity is likely to occur with mouse and rat. Reactivity with other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	high mobility group nucleosomal binding domain 1
Database Link:	P18608

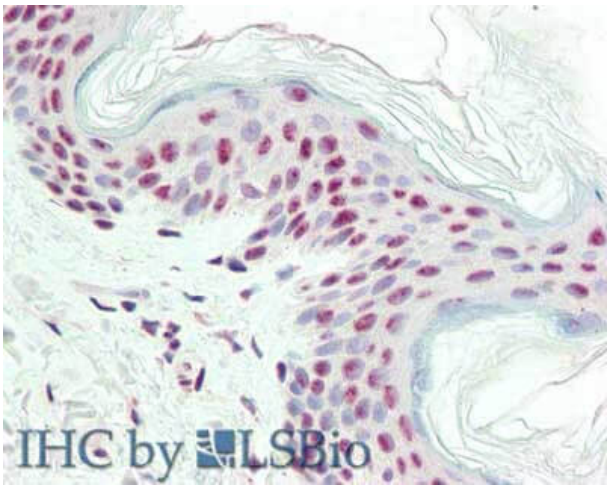
View online »

Background: The specificity of mAb IPO-38 was demonstrated in different human and murine lymphoid and non-lymphoid cell lines. It does not react with mononuclear cells and granulocytes of healthy donors but does react with nuclei of blood cells of patients with different forms of leukemia and with cells from lymph nodes of patients with Hodgkin's disease and non-hodgkin's lymphoma. Also a positive reaction in nuclei of breast and colorectal tumor cells was demonstrated. IPO-38 may be a good marker of cellular proliferation during monitoring of tumor progression.

Synonyms: mouse anti-IPO38 antibody, mouse anti-HMGN1 antibody, mouse anti-HMG14 antibody, Non-histone chromosomal protein HMG-14 antibody, High-mobility group nucleosome-binding domain-containing protein 1 antibody

Note: Anti-IPO-38 has been tested by immunohistochemistry (frozen and formalin/paraffin) and western blot analysis on the Raji cell line and reacts with a 14 -16 kDa protein. This antibody is suitable for ELISA and immunoprecipitation. The antibody is reported to recognize a nuclear antigen that is present in the cytoplasm and nuclei of proliferating cells (paraformaldehyde fixed, Triton X-100 permeabilized). An increase of 400% is observed in cells in mitosis (determined by analysis of K562 cells synchronized with colcemid). IPO-38 does not block the binding of the Ki-67 antibody. Tonsillar tissue is typically used as a positive control.

Product images:



Immunohistochemistry of Mouse anti-IPO-38 antibody. Tissue: human skin. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-IPO 38 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Staining: IPO-38 as precipitated red signal with hematoxylin purple nuclear counterstain.