

Datasheet for 200-301-278**IPO-38 Antibody****Overview**

Description:	Anti-IPO-38 (MOUSE) Monoclonal Antibody - 200-301-278
Item No.:	200-301-278
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

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
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	IPO-38
Format:	IgM

Target Details

Gene Name:	Hmgn1
Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	A BALB/c mouse was immunized with spleen cells of a human patient with hairy cell leukemia.

Purity/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.

Relevant Links:

- [NCBI - NP_032277.3](#)
- [UniProtKB - P18608](#)
- [GeneID - 15312](#)

Application Details

Tested Applications: IHC, WB

Application 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.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:50,000

IHC: 10 µg/mL

WB: 1:500- 1:2,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

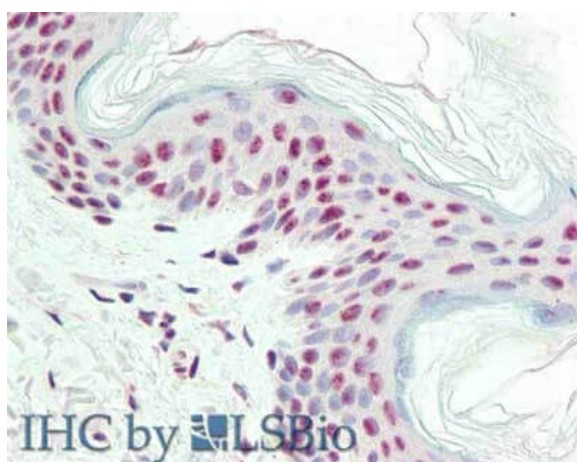
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.