

Anti-IPO-38 HMGN1 Monoclonal Antibody

Catalog Number: M03051

About HMGN1

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.

Overview

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|----------------------|---|
| Product Name | Anti-IPO-38 HMGN1 Monoclonal Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-IPO-38 HMGN1 Monoclonal Antibody (Catalog # M03051). Tested in IHC, WB applications. This antibody reacts with Human. |
| Application | ELISA, IHC, WB |
| Clonality | Monoclonal Clone: IPO-38 IgM kappa |
| Formulation | 0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide |
| Storage Instructions | 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 date is one (1) year from date of opening. (Ship on dry ice.) |
| Host | Mouse |
| Uniprot ID | P18608 |

Technical Details

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| Immunogen | A BALB/c mouse was immunized with spleen cells of a human patient with hairy cell leukemia. |
| Predicted Reactive Species | Chimpanzee, Hamster |
| Isotype | IgM kappa |
| Form | Liquid (sterile filtered) |
| Concentration | 1.0 mg/mL by UV absorbance at 280 nm |
| Purification | 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.

Suggested Dilutions

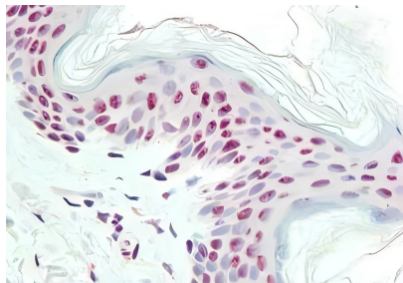
ELISA: 1:10,000 - 1:50,000

IHC: 10 µg/mL

WB: 1:500- 1:2,000

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.

Anti-IPO-38 HMGN1 Monoclonal Antibody (M03051) 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.

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