

Anti-IPO-38 (MOUSE) Monoclonal Antibody
IPO-38 Antibody
Catalog # ASR4146**Specification**

Anti-IPO-38 (MOUSE) Monoclonal Antibody - Product Information

Host	Mouse
Conjugate	Unconjugated
Target Species	Mouse
Reactivity	Human
Clonality	Monoclonal
Application	WB, IHC, E, I, LCI
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.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2
Immunogen	A BALB/c mouse was immunized with spleen cells of a human patient with hairy cell leukemia.
Preservative	0.01% (w/v) Sodium Azide

Anti-IPO-38 (MOUSE) Monoclonal Antibody - Additional Information**Gene ID 15312****Other Names**
15312**Purity**

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.

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-IPO-38 (MOUSE) Monoclonal Antibody - Protein Information

Name Hmgn1

Synonyms Hmg-14, Hmg14

Function

Binds to the inner side of the nucleosomal DNA thus altering the interaction between the DNA and the histone octamer. May be involved in the process which maintains transcribable genes in a unique chromatin conformation. Inhibits the phosphorylation of nucleosomal histones H3 and H2A by RPS6KA5/MSK1 and RPS6KA3/RSK2.

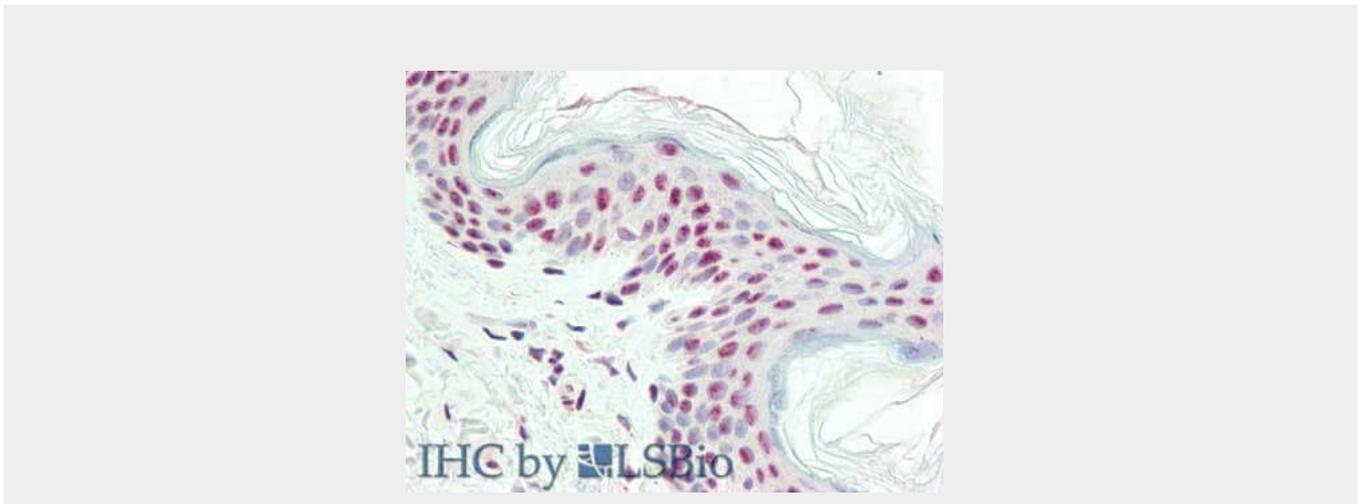
Cellular Location

Nucleus. Cytoplasm. Note=Cytoplasmic enrichment upon phosphorylation.

Anti-IPO-38 (MOUSE) Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-IPO-38 (MOUSE) Monoclonal Antibody - 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.

Anti-IPO-38 (MOUSE) Monoclonal Antibody - 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.