abcam

Product datasheet

Anti-Nuclear Matrix Protein p84 antibody [EPR5662(2)] - BSA and Azide free ab232034

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Nuclear Matrix Protein p84 antibody [EPR5662(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR5662(2)] to Nuclear Matrix Protein p84 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, ICC/IF, Flow Cyt, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Nuclear Matrix Protein p84 aa 350-450. The exact sequence is proprietary.
Positive control	IHC-P: Human breast carcinoma tissue.
General notes	Ab232034 is the carrier-free version of ab131268. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. ab232034 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc.* This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Properties

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5662(2)
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab232034** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

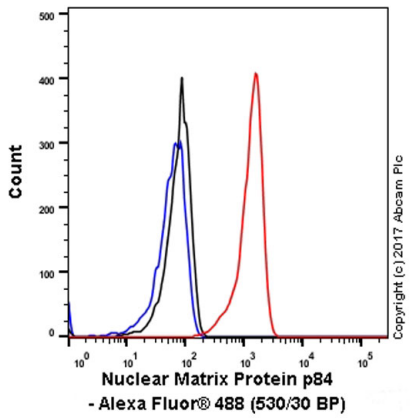
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. (Heat to 98°C, allow to cool for 10-20 minutes)
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 76 kDa.

Target

Function	Component of the THO subcomplex of the TREX complex. The TREX complex specifically associates with spliced mRNA and not with unspliced pre-mRNA. It is recruited to spliced mRNAs by a transcription-independent mechanism. Binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export. The recruitment occurs via an interaction between THOC4 and the cap-binding protein NCBP1. DDX39B functions as a bridge between THOC4 and the THO complex. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. The recruitment of the TREX complex to the intronless viral mRNA occurs via an interaction between KSHV ORF57 protein and THOC4. Regulates transcriptional elongation of a subset of genes. Participates in an apoptotic pathway which is characterized by activation of caspase-6, increases in the expression of BAK1 and BCL2L1 and activation of NF-kappa-B. This pathway does not require p53/TP53, nor does the presence of p53/TP53 affect the efficiency of cell killing. Activates a G2/M cell cycle checkpoint prior to the onset of apoptosis. Apoptosis is inhibited by association with RB1.
Tissue specificity	Ubiquitous. Expressed in various cancer cell lines. Expressed at very low levels in normal breast epithelial cells and highly expressed in breast tumors. Expression is strongly associated with an

	aggressive phenotype of breast tumors and expression correlates with tumor size and the metastatic state of the tumor progression.
Sequence similarities	Contains 1 death domain.
Domain	An intact death domain is needed for apoptosis.
Post-translational modifications	Expression is altered specifically during apoptosis and is accompanied by the appearance of novel forms with smaller apparent molecular mass.
Cellular localization	Cytoplasm and Nucleus speckle. Nucleus > nucleoplasm. Nucleus matrix. Cytoplasm. Can shuttle between the nucleus and cytoplasm. Nuclear localization is required for induction of apoptotic cell death. Translocates to the cytoplasm during the early phase of apoptosis execution.
Form	Nuclear (Isoform 1) and Cytoplasmic (Isoform 1 and 2).

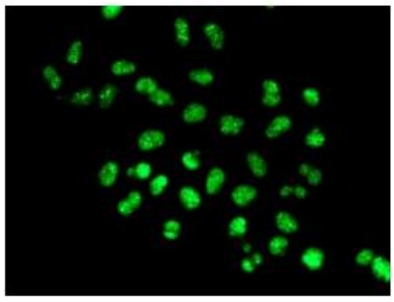
Images



Flow Cytometry - Anti-Nuclear Matrix Protein p84 antibody [EPR5662(2)] - BSA and Azide free (ab232034)

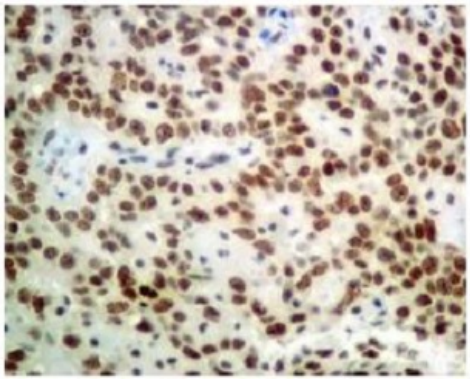
Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling Nuclear Matrix Protein p84 with purified ab131268 at 1/120 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab131268).



Immunocytochemistry/ Immunofluorescence - Anti-Nuclear Matrix Protein p84 antibody [EPR5662(2)] - BSA and Azide free (ab232034)

Immunofluorescent staining of HeLa cells labelling Nuclear Matrix Protein p84 with ab131268 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab131268).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nuclear Matrix Protein p84 antibody [EPR5662(2)] - BSA and Azide free (ab232034)

Immunohistochemical analysis of paraffin embedded human breast carcinoma tissue labeling Nuclear Matrix Protein p84 with ab131268 at 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab131268).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

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