

Product datasheet

Anti-Ran antibody [EPR10790(B)] ab157213

Recombinant RabMAb

2 References 2 Images

Overview

Product name	Anti-Ran antibody [EPR10790(B)]
Description	Rabbit monoclonal [EPR10790(B)] to Ran
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF Unsuitable for: Flow Cyt, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	A synthetic peptide corresponding to amino acid residues in Human Ran was used as an immunogen (UniProt ID P62826).
Positive control	293T, HeLa and Jurkat whole cell lysate (ab7899). 293T cells.
General notes	

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

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10790(B)

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab157213** 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
WB		1/1000 - 1/5000. Predicted molecular weight: 24 kDa.
ICC/IF		1/100 - 1/250.

Application notes

Is unsuitable for Flow Cyt, IHC-P or IP.

Target

Function

GTP-binding protein involved in nucleocytoplasmic transport. Required for the import of protein into the nucleus and also for RNA export. Involved in chromatin condensation and control of cell cycle (By similarity). The complex with BIRC5/ survivin plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules. Enhances AR-mediated transactivation. Transactivation decreases as the poly-Gln length within AR increases.

Tissue specificity

Expressed in a variety of tissues.

Sequence similarities

Belongs to the small GTPase superfamily. Ran family.

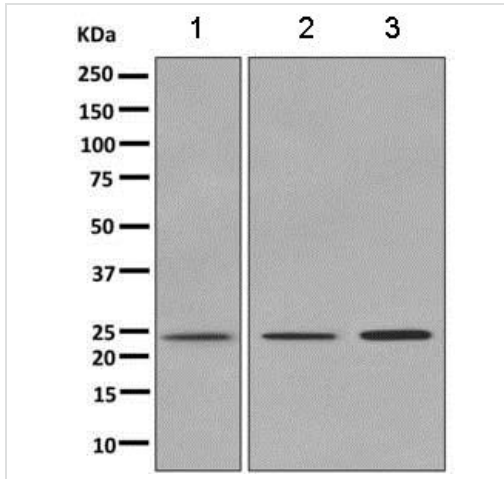
Post-translational modifications

The N-terminus is blocked.

Cellular localization

Nucleus. Cytoplasm. Melanosome. Becomes dispersed throughout the cytoplasm during mitosis. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



Western blot - Anti-Ran antibody [EPR10790(B)] (ab157213)

All lanes : Anti-Ran antibody [EPR10790(B)] (ab157213) at 1/1000 dilution

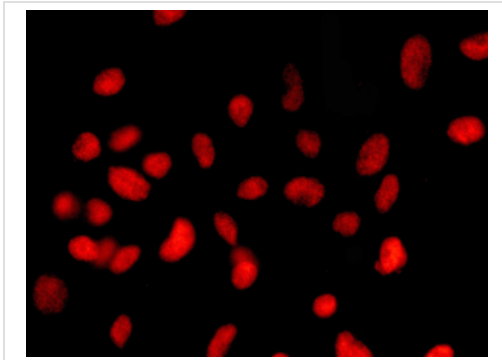
Lane 1 : 293T cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 24 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Ran antibody [EPR10790(B)] (ab157213)

Immunofluorescent analysis of 293T cells, labeling Ran with ab157213 at 1/100 dilution.

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