

Product datasheet

Anti-RNA Helicase A antibody [2274D5α] ab53668

1 Image

Overview

Product name	Anti-RNA Helicase A antibody [2274D5a]
Description	Mouse monoclonal [2274D5a] to RNA Helicase A
Host species	Mouse
Tested applications	Suitable for: Dot blot, WB
Species reactivity	Reacts with: Human
Immunogen	RNA helicase A recombinant fragment (Human)

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.
Storage buffer	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 0.0204% Monobasic dihydrogen potassium phosphate, 0.1136% Dibasic monohydrogen sodium phosphate, 1% BSA, 0.03% Potassium phosphate, 0.812% Sodium chloride, 0.1312% Sodium phosphate, 0.0225% Potassium chloride
Purity	Protein G purified
Purification notes	ab53668 was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
Clonality	Monoclonal
Clone number	2274D5a
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab53668** in the following tested applications.

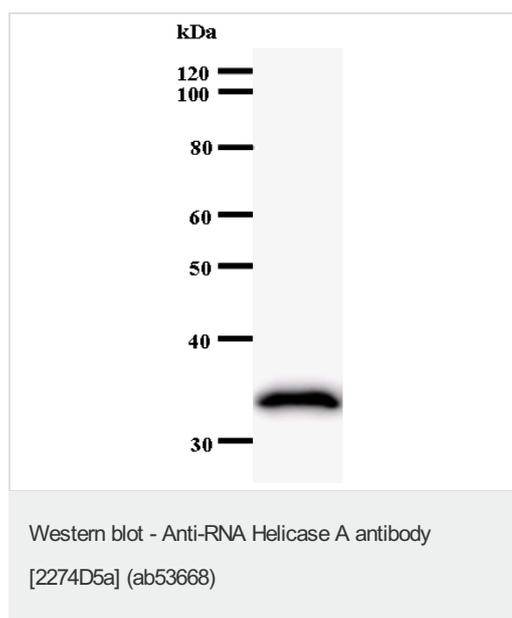
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Dot blot		Use at an assay dependent dilution.
WB		Use at an assay dependent dilution. Predicted molecular weight: 141 kDa.

Target

Function	Unwinds double-stranded DNA and RNA in a 3' to 5' direction. Alteration of secondary structure may subsequently influence interactions with proteins or other nucleic acids. Functions as a transcriptional activator. Component of the CRD-mediated complex that promotes MYC mRNA stability.
Sequence similarities	Belongs to the DEAD box helicase family. DEAH subfamily. Contains 2 DRBM (double-stranded RNA-binding) domains. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
Domain	The MTAD domain mediates interaction with the RNA polymerase II holoenzyme. The NTD domain is necessary and sufficient for nucleo-cytoplasmic shuttling and interaction with HRMT1L2 and SMN1.
Post-translational modifications	Methylated. HRMT1L2 mediated methylation of undefined Arg residues in the NTD is required for nuclear localization. May be phosphorylated by PRKDC/XRCC7. Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus > nucleolus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Can shuttle between nucleus and cytoplasm.

Images



Staining of recombinant immunising protein using anti-RNA helicase A antibody [2274D5a] (ab53668).

Predicted band size: 141 kDa

Observed band size: 34 kDa

[why is the actual band size different from the predicted?](#)

The molecular weight of the band on the western blot does not correspond to the molecular weight of the natural protein because only a fragment of the protein was used.

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