

Product datasheet

Anti-ELYS antibody [2318C1 $\alpha$ ] ab53540

1 Image

Overview

<b>Product name</b>	Anti-ELYS antibody [2318C1a]
<b>Description</b>	Mouse monoclonal [2318C1a] to ELYS
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Dot blot, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: 1% BSA, PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG depleted (approximately 95%) fetal bovine serum
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	2318C1a
<b>Isotype</b>	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab53540** in the following tested applications.

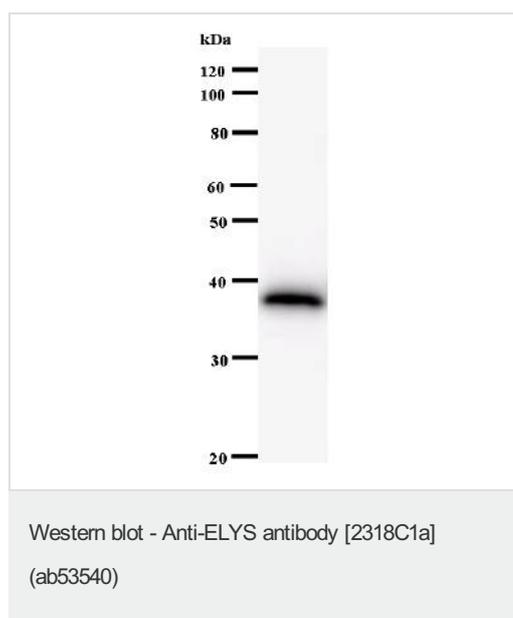
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Dot blot		Use at an assay dependent dilution.
WB		Use at an assay dependent dilution. Predicted molecular weight: 253 kDa.

## Target

<b>Function</b>	Required for the assembly of a functional nuclear pore complex (NPC) on the surface of chromosomes as nuclei form at the end of mitosis. May initiate NPC assembly by binding to chromatin and recruiting the Nup107-160 subcomplex of the NPC. Also required for the localization of the Nup107-160 subcomplex of the NPC to the kinetochore during mitosis and for the completion of cytokinesis.
<b>Sequence similarities</b>	Belongs to the ELYS family. Contains 1 A.T hook DNA-binding domain.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Cytoplasm. Nucleus matrix. Chromosome > centromere > kinetochore. Nucleus > nucleoplasm. Nucleus > nuclear pore complex. Localizes to the nuclear pore complex (NPC) throughout interphase. Localizes to the kinetochore from prophase, and this appears to require the Nup107-160 subcomplex of the NPC. Localizes to the periphery of chromatin from late anaphase.
<b>Form</b>	There are 2 isoforms produced by alternative splicing.

## Images



Anti-ELYS antibody [2318C1a] (ab53540) + Immunized recombinant protein

**Predicted band size:** 253 kDa

**Observed band size:** 38 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 as a recombinant protein was used as a test antigen

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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