


## Product datasheet

# Anti-INO80 antibody ab105451

★★★★★ 1 Abreviews 3 References 2 Images

### Overview

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<b>Product name</b>	Anti-INO80 antibody
<b>Description</b>	Rabbit polyclonal to INO80
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Cow, Dog, Pig, Macaque monkey, Gorilla 
<b>Immunogen</b>	Synthetic peptide corresponding to Human INO80 aa 1500 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab123818</a> )
<b>Positive control</b>	This antibody gave a positive signal in human brain tissue lysate and HeLa whole cell lysate.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab105451** in the following tested applications.

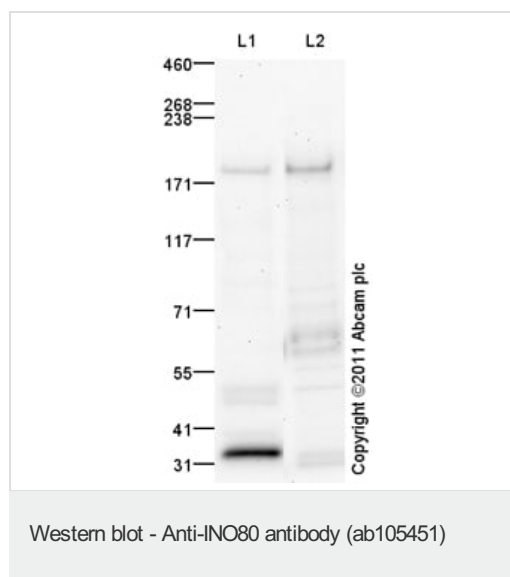
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 177 kDa (predicted molecular weight: 177 kDa).
IHC-Fr	★★★★☆	Use at an assay dependent concentration.

## Target

<b>Function</b>	DNA helicase and probable main scaffold component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair; according to PubMed:20687897 the contribution to DNA double-strand break repair appears to be largely indirect through transcriptional regulation. Recruited by YY1 to YY1-activated genes, where it acts as an essential coactivator. Binds DNA. In vitro, has double stranded DNA-dependent ATPase activity. Involved in UV-damage excision repair, DNA replication and chromosome segregation during normal cell division cycle.
<b>Tissue specificity</b>	According to PubMed:10574462, widely expressed. According to PubMed:16298340, specifically expressed in brain, liver and pancreas.
<b>Sequence similarities</b>	Belongs to the SNF2/RAD54 helicase family. Contains 1 DBINO domain. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
<b>Domain</b>	The DBINO region is involved in binding to DNA.
<b>Cellular localization</b>	Nucleus. Colocalizes with PCNA at replication forks during S-phase. Recruited to DNA damage sites in a ACTR8-dependent manner.

## Images



**All lanes :** Anti-INO80 antibody (ab105451) at 1 µg/ml

**Lane 1 :** Human brain tissue lysate - total protein (ab29466)

**Lane 2 :** HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

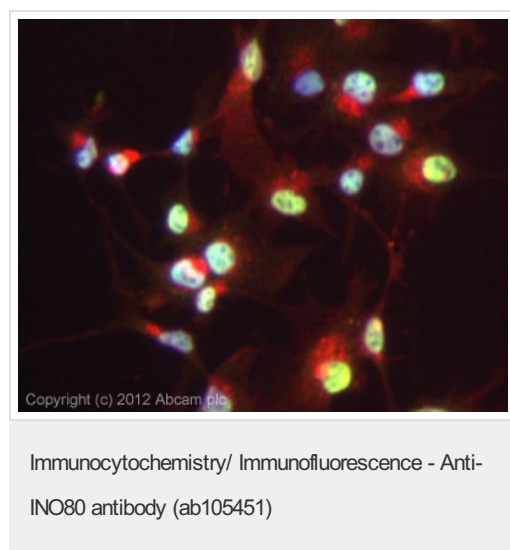
Performed under reducing conditions.

**Predicted band size:** 177 kDa

**Observed band size:** 177 kDa

**Additional bands at:** 32 kDa, 64 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 12 minutes



ICC/IF image of ab105451 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab105451, 1µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% formaldehyde fixed (10 min) HeLa, Hek293 and MCF7 cells at 1µg/ml, and in 100% methanol fixed (5 min) HeLa, Hek293, HepG2, MCF7 cells at 1µg/ml.

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

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