


## Product datasheet

# Anti-LHX5 antibody ab88185

[6 Images](#)

### Overview

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<b>Product name</b>	Anti-LHX5 antibody
<b>Description</b>	Mouse monoclonal to LHX5
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Xenopus laevis, Zebrafish 
<b>Immunogen</b>	Recombinant fragment: CTDRSLSPDL QDALQDDPKE TDNSTSSDKE TANNENEEQN SGTKRRGPRT TIKAKQLETL KAAFAATPKP TRHIREQLAQ ETGLNMRVIQ VWFQNRRSKE, corresponding to amino acids 136-235 of Human LHX5 (NP_071758) with a proprietary tag. <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	Partial recombinant tagged LHX5 protein. 293, MES-SA/DX5, Y-79, and Jurkat cell lysates. HeLa cells.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: 1X PBS, pH 7.2
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab88185** in the following tested applications.

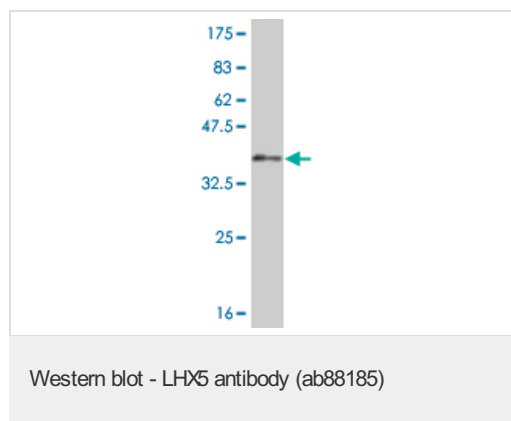
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 44 kDa.
ELISA		Use at an assay dependent dilution. Detection limit for recombinant tagged LHX5 is approximately 3ng/ml when used as a capture antibody.
ICC/IF		Use a concentration of 10 µg/ml.

## Target

<b>Function</b>	Plays an essential role in the regulation of neuronal differentiation and migration during development of the central nervous system.
<b>Tissue specificity</b>	Expressed in fetal brain and in various regions of the adult central nervous system including the spinal cord, the thalamus, and the cerebellum.
<b>Sequence similarities</b>	Contains 1 homeobox DNA-binding domain. Contains 2 LIM zinc-binding domains.
<b>Cellular localization</b>	Nucleus.

## Images



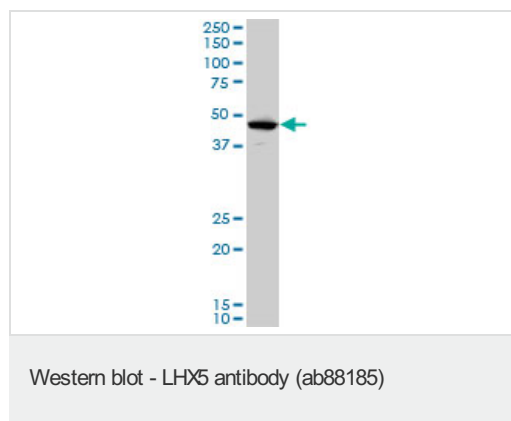
Anti-LHX5 antibody (ab88185) at 1 µg/ml +  
Partial recombinant tagged LHX5  
(Immunogen) at 0.1 µg

### Secondary

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at  
1/5000 dilution

**Predicted band size** : 44 kDa

**Observed band size** : 37 kDa



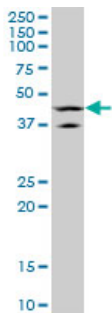
Anti-LHX5 antibody (ab88185) at 1 µg/ml +  
293 cell lysate at 25 µg

### Secondary

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at  
1/2500 dilution

**Predicted band size** : 44 kDa

**Observed band size** : 44 kDa



Western blot - LHX5 antibody (ab88185)

Anti-LHX5 antibody (ab88185) at 1  $\mu$ g/ml +  
MES-SA/Dx5 cell lysate at 25  $\mu$ g

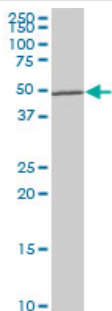
**Secondary**

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at  
1/2500 dilution

**Predicted band size** : 44 kDa

**Observed band size** : 44 kDa

**Additional bands at** : 37 kDa. We are  
unsure as to the identity of these extra bands.



Western blot - LHX5 antibody (ab88185)

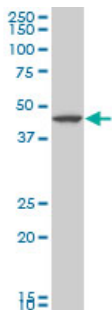
Anti-LHX5 antibody (ab88185) at 1  $\mu$ g/ml + Y-  
79 cell lysate at 25  $\mu$ g

**Secondary**

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at  
1/2500 dilution

**Predicted band size** : 44 kDa

**Observed band size** : 48 kDa



Western blot - LHX5 antibody (ab88185)

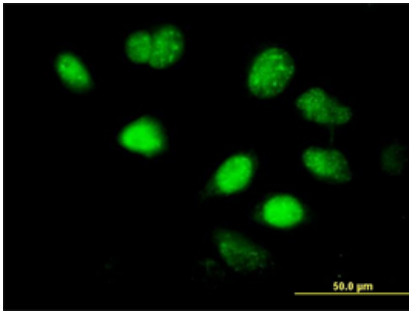
Anti-LHX5 antibody (ab88185) at 1  $\mu$ g/ml +  
Jurkat cell lysate at 25  $\mu$ g

**Secondary**

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at  
1/2500 dilution

**Predicted band size** : 44 kDa

**Observed band size** : 44 kDa



ab88185, at 10 μg/ml, staining LHX5 in permeabilised, paraformaldehyde fixed HeLa cells by immunofluorescence.

Immunocytochemistry/ Immunofluorescence - LHX5 antibody (ab88185)

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