

Product datasheet

Anti-HOXA9 antibody [EPR3655(2)] ab140631

KO VALIDATED

Recombinant

RabMAb

★★★★☆ 5 Abreviews 20 References 3 Images

Overview

Product name	Anti-HOXA9 antibody [EPR3655(2)]
Description	Rabbit monoclonal [EPR3655(2)] to HOXA9
Host species	Rabbit
Tested applications	Suitable for: IP, WB Unsuitable for: ChIP, Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human HOXA9 aa 250 to the C-terminus (C terminal). The exact sequence is proprietary.
Positive control	WB: HepG2, Human thymus, U937, SW480 and 293T lysates; HepG2 cells. IP: Wild-type HEK-293 immunoprecipitated with anti-HOXA9 antibody ab140631.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

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. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR3655(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab140631 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

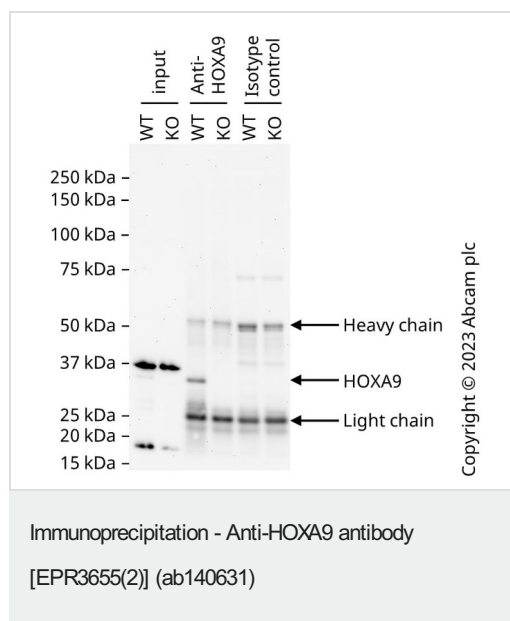
Application	Abreviews	Notes
IP		Use a concentration of 10 µg/ml.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 30 kDa.

Application notes Is unsuitable for ChIP, Flow Cyt, ICC/IF or IHC-P.

Target

Function	Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.
Involvement in disease	Note=A chromosomal aberration involving HOXA9 is found in a form of acute myeloid leukemia. Translocation t(7;11)(p15;p15) with NUP98. Note=A chromosomal aberration involving HOXA9 may contribute to disease progression in chronic myeloid leukemia. Translocation t(7;17)(p15;q23) with MS12.
Sequence similarities	Belongs to the Abd-B homeobox family. Contains 1 homeobox DNA-binding domain.
Cellular localization	Nucleus.
Form	HOXA9 is a transcription factor with a central role in both haemopoiesis and leukaemia. High levels of HOXA9 expression in haemopoietic cells is a characteristic feature of acute myeloid leukaemia (AML), and may be sufficient to cause this disease. Overexpression of Hoxa 9 markedly expands hematopoietic stem cells.

Images



Lane 1: Wild-type HEK-293 input

Lane 2: HOXA9 knockout HEK-293 input

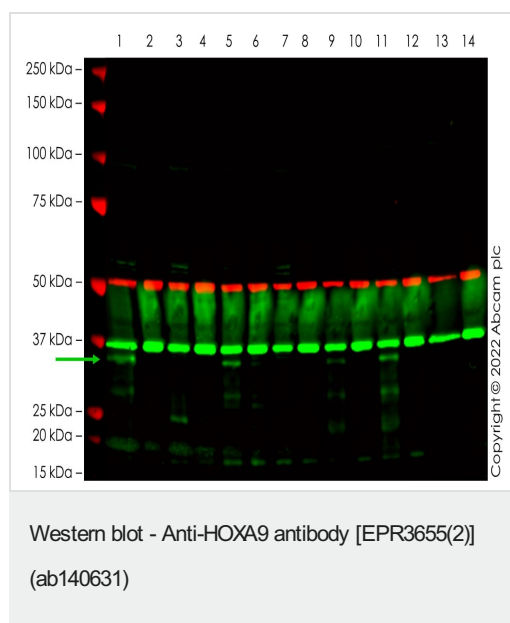
Lane 3: Wild-type HEK-293 immunoprecipitated with anti-HOXA9 antibody ab140631

Lane 4: HOXA9 knockout HEK-293 immunoprecipitated with anti-HOXA9 antibody ab140631

Lane 5: Wild-type HEK-293 immunoprecipitated with isotype control antibody **ab172730**

Lane 6: HOXA9 knockout HEK-293 immunoprecipitated with isotype control antibody **ab172730**

HOXA9 was immunoprecipitated with Recombinant Anti-HOXA9 antibody [EPR3655(2)] (ab140631) at $10 \mu\text{g ml}^{-1}$. A non-specific band detected in the input material at 37 kDa was not immunoprecipitated. **ab172730** was used as the isotype control. Western blot was performed on immunoprecipitates of wild-type and HOXA9 knockout HEK-293 cell lysates (**ab273706**). To generate this image, wild-type and HOXA9 knockout HEK-293 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with VeriBlot for IP Detection Reagent (HRP) (**ab131366**) for 1 h at room temperature, washed again four times then imaged.



All lanes : Anti-HOXA9 antibody [EPR3655(2)] (ab140631) at 1/1000 dilution

Lanes 1 & 5 : Wild-type HEK-293 nuclear cell lysate

Lanes 2 & 6 : Wild-type HEK-293 cytoplasmic cell lysate

Lanes 3 & 7 : HOXA9 knockout HEK-293 nuclear cell lysate

Lanes 4 & 8 : HOXA9 knockout HEK-293 cytoplasmic cell lysate

Lane 9 : HEK-293 Non-transfected control nuclear cell lysate

Lane 10 : HEK-293 Non-transfected control cytoplasmic cell lysate

Lane 11 : HEK-293 scrambled siRNA transfected nuclear cell lysate

Lane 12 : HEK-293 scrambled siRNA transfected cytoplasmic cell lysate

Lane 13 : HEK-293 HOXA9 siRNA transfected nuclear cell lysate

Lane 14 : HEK-293 HOXA9 siRNA transfected cytoplasmic cell lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.





Predicted band size: 30 kDa

Observed band size: 35 kDa

False colour image of Western blot: Anti-HOXA9 antibody [EPR3655(2)] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab140631 was shown to bind specifically to HOXA9. A band was observed at 35 kDa in wild-type HEK-293 cell lysates with no signal observed at this size in HOXA9 knockout cell line. The HOXA9 band is at approximately 35 kDa. This band is present in the nuclear fraction and is absent in the KO. The identity of the brighter band at 37 kDa

is unknown but is non-specific as it is present in all samples. To generate this image, wild-type and HOXA9 knockout HEK-293 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-HOXA9 antibody [EPR3655(2)] (ab140631)

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

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