abcam

Product datasheet

Anti-MEIS1 antibody ab19867

★★★★☆ **3 Abreviews**   **33 References**   **3 Images**

Overview

Product name	Anti-MEIS1 antibody
Description	Rabbit polyclonal to MEIS1
Host species	Rabbit
Specificity	From Mar 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Rat, Human
	Predicted to work with: Mouse, Dog, Zebrafish ⚠
Immunogen	Synthetic peptide corresponding to Human MEIS1 aa 200-300 (internal sequence) conjugated to keyhole limpet haemocyanin.
Positive control	This antibody gave a positive signal in the following nuclear cell extract: KG-1. This antibody gave a positive signal in the following FFPE tissue: Human tonsil, and Rat normal brain.
General notes	For a detailed method for MEIS1 ChIP-seq in RA-treated P19.6 cells, please see the protocol described by Dr Aurelien Serandour at **http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM819083**.
	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	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.

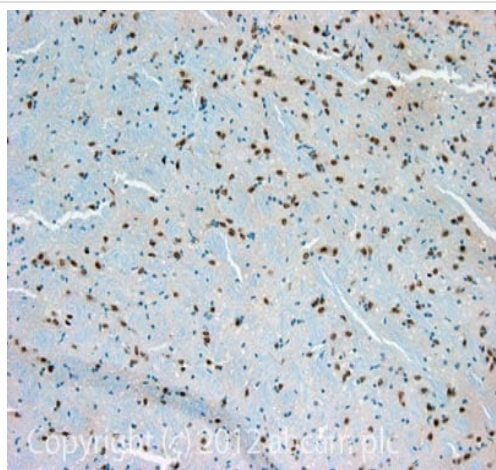|	
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab19867 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
IHC-P	★★★★☆ (1)	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 40, 48 kDa (predicted molecular weight: 43, 50 kDa). Abcam recommends using milk as the blocking agent.

Target

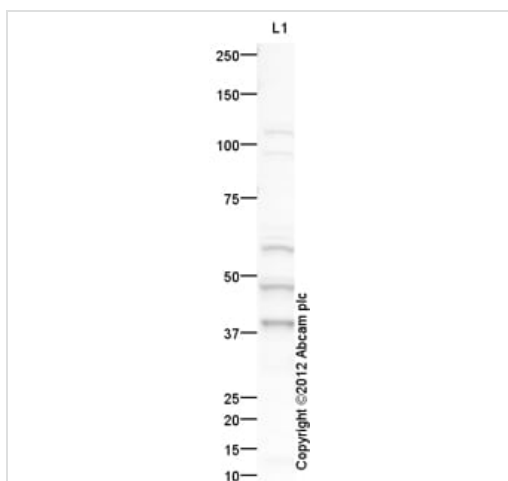|	
Function	Acts as a transcriptional regulator of PAX6. Acts as a transcriptional activator of PF4 in complex with PBX1 or PBX2. Required for hematopoiesis, megakaryocyte lineage development and vascular patterning. May function as a cofactor for HOXA7 and HOXA9 in the induction of myeloid leukemias.
Tissue specificity	Expressed at low level in normal immunohepatopoietic tissues, including the fetal liver. Expressed in a subset of myeloid leukemia cell lines, with the highest expression seen in those with a megakaryocytic-erythroid phenotype. Also expressed at high levels in the cerebellum.
Involvement in disease	Defects in MEIS1 could be a cause of susceptibility to restless legs syndrome type 7 (RLS7) [MIM:612853]. Restless legs syndrome (RLS) is a neurologic sleep/wake disorder characterized by uncomfortable and unpleasant sensations in the legs that appear at rest, usually at night, inducing an irresistible desire to move the legs. The disorder results in nocturnal insomnia and chronic sleep deprivation.
Sequence similarities	Belongs to the TALE/MEIS homeobox family. Contains 1 homeobox DNA-binding domain.
Cellular localization	Nucleus.

Images

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEIS1 antibody (ab19867)

IHC image of MEIS1 staining in Rat normal brain formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab19867, 0.5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

Western blot - Anti-MEIS1 antibody (ab19867)

Anti-MEIS1 antibody (ab19867) at 1 µg/ml (blocked with 5% milk) + KG-1 (Human myeloid cell line) Nuclear Lysate at 15 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution
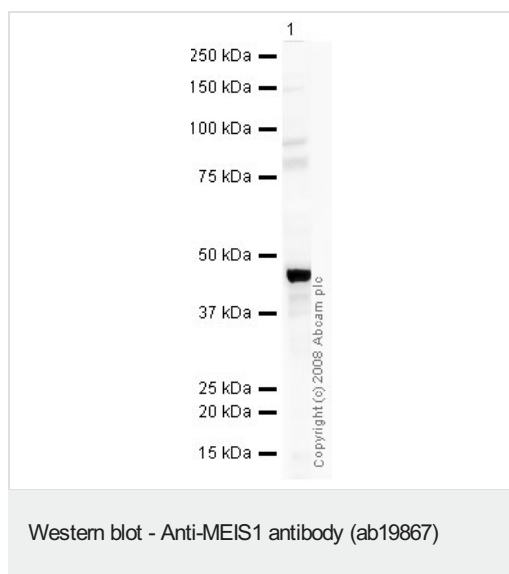
Performed under reducing conditions.

Predicted band size: 43, 50 kDa
Observed band size: 40,48 kDa
Additional bands at: 58 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 12 minutes

This antibody was raised against an immunogen that is predicted to recognize isoforms 1 and 2 of MEIS1. The predicted molecular weights of isoforms 1 and 2 are 43 kDa and 50 kDa respectively. Abcam recommends using milk as the blocking agent. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.

Western blot - Anti-MEIS1 antibody (ab19867)

Anti-MEIS1 antibody (ab19867) at 1 µg/ml + HEK293 Wcl Transiently Overexpressing MEIS1 at 5 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) (**ab65484**) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 43, 50 kDa
Observed band size: 45 kDa

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

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