abcam

Product datasheet

Anti-HAND1 antibody ab46822

★★★★★ 2 Abreviews 1 References 1 Image

Overview

Product name	Anti-HAND1 antibody
Description	Rabbit polyclonal to HAND1
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Sheep, Rabbit, Chicken, Cow, Pig
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 150 to the C-terminus of Human HAND1.Read Abcam's proprietary immunogen policy(Peptide available as **ab47013**.)
Positive control	This antibody gave a positive signal in the following Human tissue lysates: Brain, Heart.

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	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab46822 in the following tested applications.

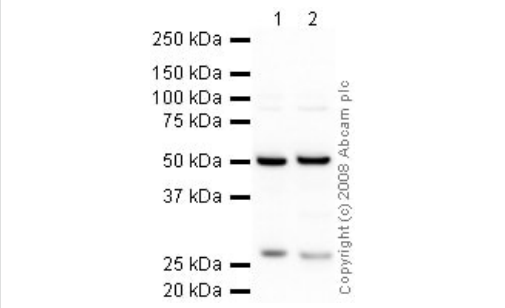
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 25.8 kDa (predicted molecular weight: 25.8 kDa).

Target

Function	Transcription factor that plays an essential role in both trophoblast-giant cells differentiation and in cardiac morphogenesis. In the adult, could be required for ongoing expression of cardiac-specific genes. Binds the DNA sequence 5'-NRTCTG-3' (non-canonical E-box).
Tissue specificity	Heart.
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
Post-translational modifications	Phosphorylation by PLK4 disrupts the interaction with MDFIC and leads to tranlocation into the nucleoplasm, allowing dimerization and transcription factor activity.
Cellular localization	Nucleus > nucleoplasm. Nucleus > nucleolus. Interaction with MDFIC sequesters it into the nucleolus, preventing the transcription factor activity. Phosphorylation by PLK4 disrupts the interaction with MDFIC and releases it from the nucleolus, leading to transcription factor activity.

Images



Western blot - Anti-HAND1 antibody (ab46822)

All lanes : Anti-HAND1 antibody (ab46822) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (**ab29466**)
Lane 2 : Human heart tissue lysate - total protein (**ab29431**)

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 25.8 kDa
Observed band size: 25.8 kDa
Additional bands at: 50 kDa. We are unsure as to the identity of these extra bands.

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