

Product datasheet

Anti-DIXDC1 antibody ab177517

1 Image

Overview

Product name	Anti-DIXDC1 antibody
Description	Rabbit polyclonal to DIXDC1
Host species	Rabbit
Tested applications	Suitable for: IP Unsuitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Rat, Rabbit, Horse, Pig, Chimpanzee, Cynomolgus monkey, Rhesus monkey, Gorilla, Chinese hamster, Orangutan ▲
Immunogen	Synthetic peptide within Human DIXDC1 aa 225-275. The exact sequence is proprietary. (NP_001033043.1). Sequence: PIHSAKSESITQSEEKADFVIIIPAEGIENRTEGTDSPLSR DWRPGSPGT Y Database link: Q155Q3 Run BLAST with Run BLAST with
Positive control	293T whole cell lysate.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate pH 7 to 8
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab177517** in the following tested applications.

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

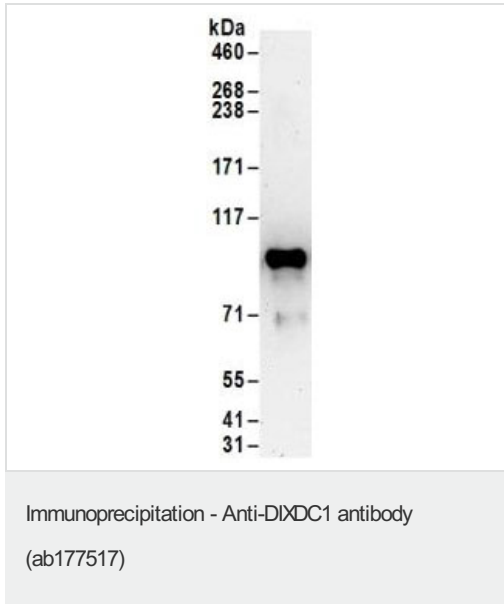
Application	Abreviews	Notes
IP		Use at 2-10 µg/mg of lysate.

Application notes Is unsuitable for WB.

Target

Function	Positive effector of the Wnt signaling pathway; activates WNT3A signaling via DVL2. Regulates JNK activation by AXIN1 and DVL2.
Tissue specificity	Ubiquitously expressed with higher expression in cardiac and skeletal muscles.
Sequence similarities	Belongs to the DIXDC1 family. Contains 1 CH (calponin-homology) domain. Contains 1 DIX domain.
Domain	The coiled-coil domain mediates interaction with MAP3K4 and inhibition of AXIN1-mediated JNK activation through MAP3K4. The DIX domain mediates interaction with AXIN1 and inhibition of AXIN1-mediated JNK activation through MAP3K1. Mediates interaction with DVL2; this interaction is required for activation of Wnt signaling.
Post-translational modifications	Phosphorylated on tyrosine and serine residues. Polyubiquitinated, leading to its proteasomal degradation. WNT3A signaling increases DIXDC1 protein levels by inhibiting its ubiquitination and subsequent degradation.
Cellular localization	Cytoplasm; Cell junction > focal adhesion. Associated with actin stress fiber at the filament ends and Cytoplasm > cytosol. Colocalizes with gamma-tubulin at the centrosome, both during interphase and mitosis.

Images



Detection of DIXDC1 in Immunoprecipitates of 293T whole cell lysate (1 mg for IP, 20% of IP loaded) using ab177517 at 6 µg/mg lysate for IP. An alternative anti-DIXDC1 antibody was used at 1 µg/ml for subsequent western blot detection.

Detection: Chemiluminescence with exposure time of 3 minutes.

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