

Product datasheet

Anti-NOXO1 antibody ab97788

1 Image

Overview

Product name	Anti-NOXO1 antibody
Description	Rabbit polyclonal to NOXO1
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide, corresponding to a region within amino acids 307-370 of Human NOXO1 (NP_653204)
Positive control	HCT116 whole cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol, 0.1M Tris, 0.1M Glycine, pH 7.0
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab97788** in the following tested applications.

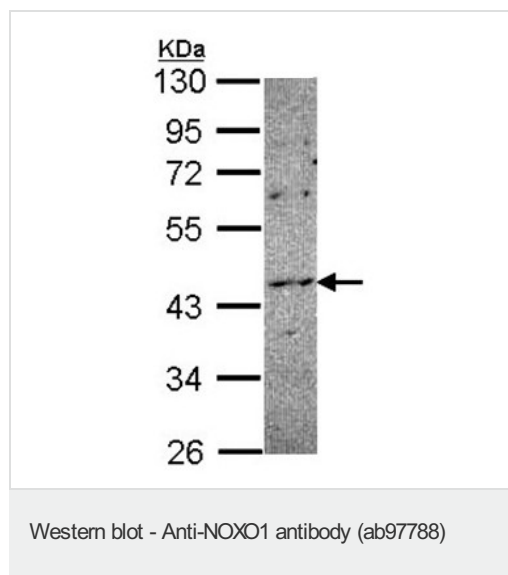
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 41 kDa.

Target

Function	Constitutively potentiates the superoxide-generating activity of NOX1 and NOX3 and is required for the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity. Isoform 3 is more potent than isoform 1 in activating NOX3. Together with NOXA1, may also substitute to NCF1/p47phox and NCF2/p67phox in supporting the phagocyte NOX2/gp91phox superoxide-generating activity.
Tissue specificity	Expressed in testis, small and large intestines, liver, kidney and pancreas. Isoform 3 is mainly expressed in colon. Isoform 1 is preferentially expressed in testis.
Sequence similarities	Contains 1 PX (phox homology) domain. Contains 2 SH3 domains.
Developmental stage	Isoform 3 is expressed in fetal liver.
Domain	The PX domain mediates lipid-binding, localization to the plasma membrane and is required for NOX1 activation. The SH3 domains mediate interaction with CYBA/p22phox. Also mediates intramolecular interaction with the proline-rich region.
Cellular localization	Cell membrane. Isoform 3 associates with the plasma membrane in a lipid-dependent manner.

Images



Anti-NOXO1 antibody (ab97788) at 1/1000 dilution + HCT116 whole cell lysate at 30 µg

Predicted band size: 41 kDa

10% SDS PAGE

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