

Product datasheet

Anti-NOXO1 antibody ab77092

1 Image

Overview

Product name	Anti-NOXO1 antibody
Description	Goat polyclonal to NOXO1
Host species	Goat
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide: RGCVDSVPHPTTEQ , corresponding to C terminal amino acids 363-376 of Human NOXO1 Run BLAST with Run BLAST with
Positive control	Human kidney tissue
General notes	This antibody is expected to recognise all three reported isoforms.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Primary antibody notes	This antibody is expected to recognise all three reported isoforms.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab77092** in the following tested applications.

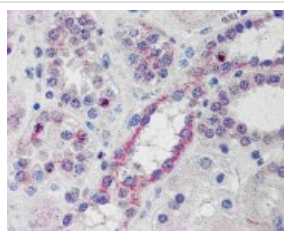
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 - 20 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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



Immunohistochemical analysis of paraffin embedded human kidney labelled with ab77092 at 10 µg/ml. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOXO1 antibody (ab77092)

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