

Product datasheet for **TA349082**

NOX3 Rabbit Polyclonal Antibody

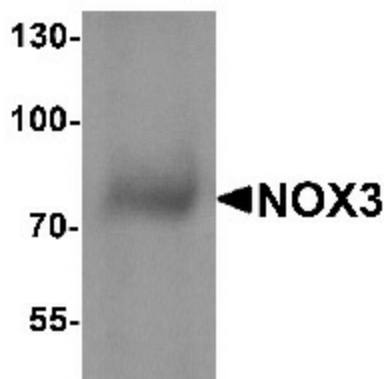
Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, IHC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	NOX3 antibody was raised against a 15 amino acid peptide near the amino terminus of human NOX3.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	NOX3 antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 62 kDa; Observed: 72 kDa
Gene Name:	NADPH oxidase 3
Database Link:	NP_056533 Entrez Gene 50508 Human Q9HBY0
Background:	The NOX family of NADPH oxidases is comprised of seven transmembrane proteins that oxidize intracellular NADPH/NADH, causing electron transport across the membrane and the reduction of molecular oxygen to superoxide (1). NOX3 is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia/otolith (2,3). It has been suggested that NOX3 is activated by the Transient Receptor Potential Vanilloid 1 (TRPV1), and this activity causes increased levels of reactive oxygen species in the inner ear, which in turn leads to STAT1-mediated inflammation and hearing loss (4).
Synonyms:	KOX; KOX-1; RENOX

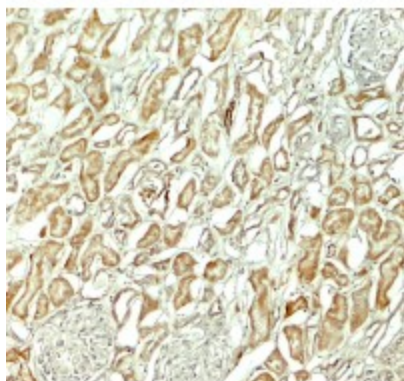


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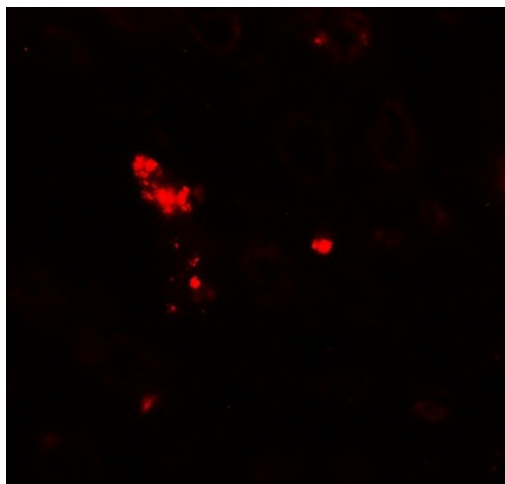
Product images:



Western blot analysis of NOX3 in 293 cell lysate with NOX1 antibody at 1 ug/mL.



Immunohistochemistry of NOX3 in human kidney tissue with NOX3 antibody at 5 ug/mL.



Immunofluorescence of NOX3 in human kidney tissue with NOX3 antibody at 20 ug/mL.