

Product datasheet for **TA349081**

CYBB 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, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Rabbit polyclonal NOX2 antibody was raised against a 15 amino acid peptide near the amino terminus of human NOX2.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	NOX2 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: 59, 63 kDa; Observed: 58 kDa
Gene Name:	cytochrome b-245 beta chain
Database Link:	NP_000388 Entrez Gene 13058 Mouse Entrez Gene 66021 Rat Entrez Gene 1536 Human P04839

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). NOX2, also known as cytochrome b beta (CYBB) is one of two proteins that make up Cytochrome b-245, thought to be a primary component of the microbicidal oxidase system of phagocytes. NOX2 deficiency is one of five described biochemical defects associated with chronic granulomatous disease (CGD) (2). Activation of the NOX2 enzyme complex in microglia is thought to be neurotoxic and may play a role in Alzheimer?? and Parkinson?? disease (3).



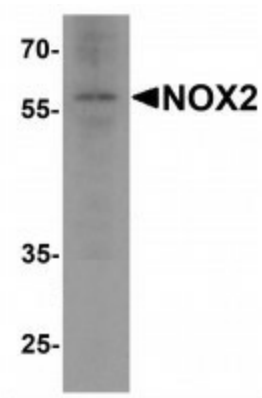
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Synonyms: AMCBX2; CGD; GP91-1; GP91-PHOX; GP91PHOX; IMD34; NOX2; p91-PHOX

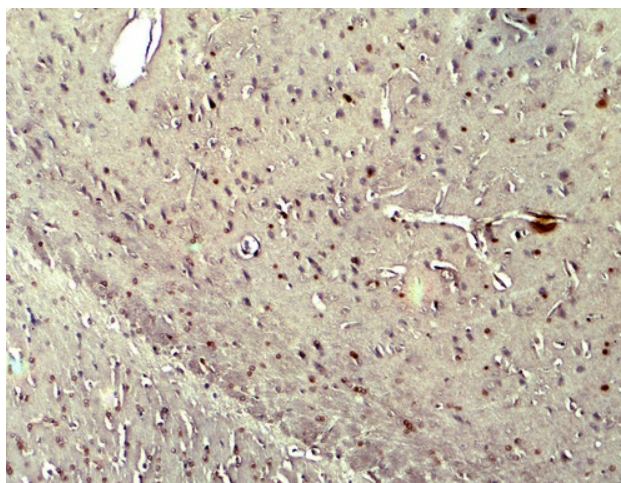
Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

Protein Pathways: Leukocyte transendothelial migration

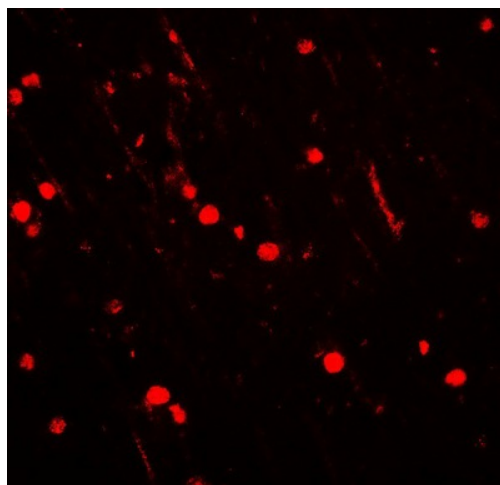
Product images:



Western blot analysis of NOX2 in rat brain tissue lysate with NOX2 antibody at 1 ug/mL.



Immunohistochemistry of NOX2 in rat brain tissue with NOX2 antibody at 5 ug/mL.



Immunofluorescence of NOX2 in rat brain tissue with NOX2 antibody at 20 ug/mL.