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anti-CYBB antibody (Middle Region)

2 Images



Publications



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Overview		
Quantity:	100 μg	
Target:	CYBB	
Binding Specificity:	AA 442-459, Middle Region	
Reactivity:	Human, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Purpose:	Rabbit IgG polyclonal antibody for Cytochrome b-245 heavy chain(CYBB) detection. Tested with WB, IHC-P in Human,Mouse,Rat.	
lmmunogen:	A synthetic peptide corresponding to a sequence in the middle region of human NOX2(442-459aa YWLCRDTHAFEWFADLLQ), identical to the related rat and mouse sequences.	
Sequence:	YWLCRDTHAF EWFADLLQ	
Isotype:	IgG	
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.	
Characteristics:	Rabbit IgG polyclonal antibody for Cytochrome b-245 heavy chain(CYBB) detection. Tested with WB, IHC-P in Human, Mouse, Rat.	

Product Details

Gene Name: cytochrome b-245, beta polypeptide

Protein Name: Cytochrome b-245 heavy chain

Purification:

Immunogen affinity purified.

Target Details

Target: CYBB

Alternative Name: CYBB (CYBB Products)

Background:

NOX2(NADPH OXIDASE 2), also called CYBB(CYTOCHROME b(-245), BETA SUBUNIT), p91-PHOX or GP91-1, is a human gene encoding a glycoprotein.NOX2 is an essential component of phagocytic NADPH-oxidase, a membrane-bound enzyme complex that generates large quantities of microbicidal superoxide and other oxidants upon activation. It is mapped on Xp11.4. NOX2 is a heterodimer composed of an alpha chain of relative molecular mass 23 kD and a beta chain of 76 to 82 kD. NOX2 assembled on DC phagosomes in a gp91-phox subunit-dependent manner, and that reactive oxygen species were produced in a more sustained manner in immature DC phagosomes than in macrophage phagosomes. As a major player in innate immune responses in neutrophils, NOX2 is also involved in adaptive immunity through its activity in DCs. In heart cells, physiologic stretch rapidly activates reduced-form NOX2 to produce reactive oxygen species(ROS) in a process dependent on microtubules(X-ROS signaling).

Synonyms: AMCBX2 antibody|CGD antibody|CGD91-phox antibody|CY24B_HUMAN antibody|CYBB antibody|Cytochrome b 245, beta polypeptide antibody|Cytochrome b(558) beta chain antibody|Cytochrome b(558) subunit beta antibody|Cytochrome b-245 heavy chain antibody|Cytochrome b558 subunit beta antibody|GP91 PHOX antibody|gp91-1 antibody|gp91-phox antibody|GP91PHOX antibody|Heme-binding membrane glycoprotein gp91phox antibody|NADPH oxidase 2 antibody|Neutrophil cytochrome b 91 kDa polypeptide antibody|NOX2 antibody|p22 phagocyte B-cytochrome antibody|P91 PHOX antibody|p91-PHOX antibody|Superoxide-generating NADPH oxidase heavy chain subunit antibody

UniProt:

P04839

Application Details

Application Notes:

WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,

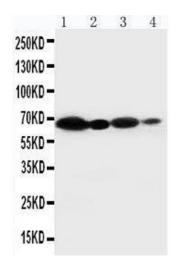
Application Details

7 Application Betaile			
	Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for		
	20 mins is required for the staining of formalin/paraffin sections.		
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to b		
	fit for the product based on sequence similarities. Other applications have not been tested.		
	Optimal dilutions should be determined by end users.		
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by		
	ABIN921231 in IHC(P).		
Restrictions:	For Research Use only		
Handling			
Format:	Lyophilized		
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.		
Concentration:	500 μg/mL		
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg		
	Sodium azide.		
Preservative:	Thimerosal (Merthiolate), Sodium azide		
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND		
	HAZARDOUS SUBSTANCES which should be handled by trained staff only.		
Handling Advice:	Avoid repeated freezing and thawing.		
Storage:	4 °C/-20 °C		
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.		
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing		
	and thawing.		
Expiry Date:	12 months		
Publications			
Product cited in:	Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic		
	stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after		
	injury." in: Journal of the Association for Research in Otolaryngology: JARO, Vol. 9, Issue 2,		
	pp. 225-40, (2008) (PubMed).		

Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) (PubMed).

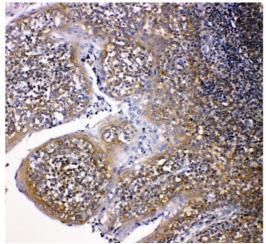
There are more publications referencing this product on: Product page

Validation report #300029 for Immunohistochemistry (IHC)



Western Blotting

Image 1. Anti-NOX2/gp91phox antibody, Western blotting Lane 1: HELA Cell Lysate Lane 2: JURKAT Cell Lysate Lane 3: MCF-7 Cell Lysate Lane 4: SMMC Cell Lysate



Immunohistochemistry

Image 2. Anti-NOX2/gp91phox antibody, IHC(P): Human Intestinal Cancer Tissue