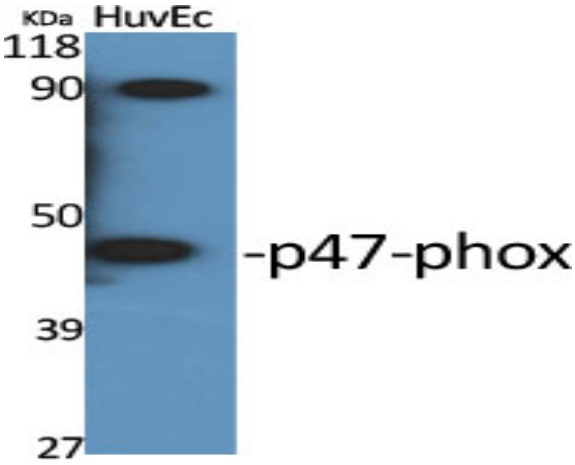
Best Tools for immunology Research

p47-phox Polyclonal Antibody

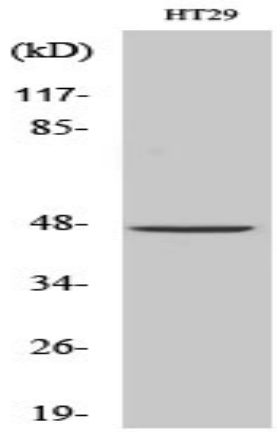
Catalog No :	YT3520
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	p47-phox
Fields :	>>Chemokine signaling pathway;>>Phagosome;>>Osteoclast differentiation;>>Neutrophil extracellular trap formation;>>Fc gamma R-mediated phagocytosis;>>Leukocyte transendothelial migration;>>Prion disease;>>Leishmaniasis;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy;>>Lipid and atherosclerosis;>>Fluid shear stress and atherosclerosis
Gene Name :	NCF1
Protein Name :	Neutrophil cytosol factor 1
Human Gene Id :	653361
Human Swiss Prot No :	P14598
Mouse Gene Id :	17969
Mouse Swiss Prot No :	Q09014
Immunogen :	The antiserum was produced against synthesized peptide derived from human p47 phox. AA range:341-390
Specificity :	p47-phox Polyclonal Antibody detects endogenous levels of p47-phox protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	44kD
Cell Pathway :	Chemokine;Fc gamma R-mediated phagocytosis;Leukocyte transendothelial migration;
Background :	The protein encoded by this gene is a 47 kDa cytosolic subunit of neutrophil NADPH oxidase. This oxidase is a multicomponent enzyme that is activated to produce superoxide anion. Mutations in this gene have been associated with chronic granulomatous disease. [provided by RefSeq, Jul 2008],
Function :	disease:Defects in NCF1 are the cause of chronic granulomatous disease autosomal recessive cytochrome-b-positive type 1 (CGD1) [MIM:233700]. Chronic granulomatous disease is a genetically heterogeneous disorder characterized by the inability of neutrophils and phagocytes to kill microbes that they have ingested. Patients suffer from life-threatening bacterial/fungal infections.,function:NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).,online information:NCF1 deficiency database,similarity:Contains 1 PX (phox homology) domain.,similarity:Contains 2 SH3 domains.,subunit:Interacts with NOXA1.,
Subcellular Location :	Cytoplasm, cytosol . Membrane ; Peripheral membrane protein ; Cytoplasmic side .
Expression :	Detected in peripheral blood monocytes and neutrophils (at protein level).
Tag :	orthogonal,hot
Sort :	11427
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

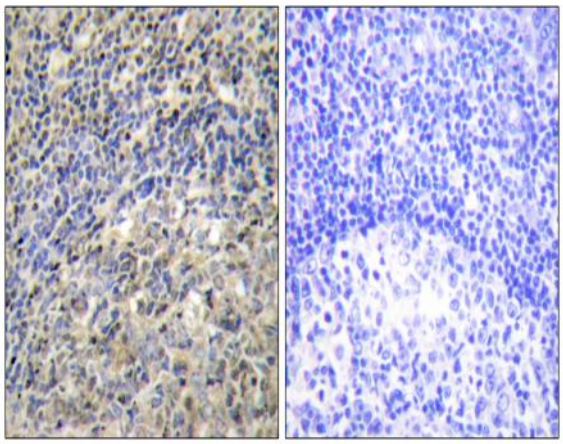
Products Images



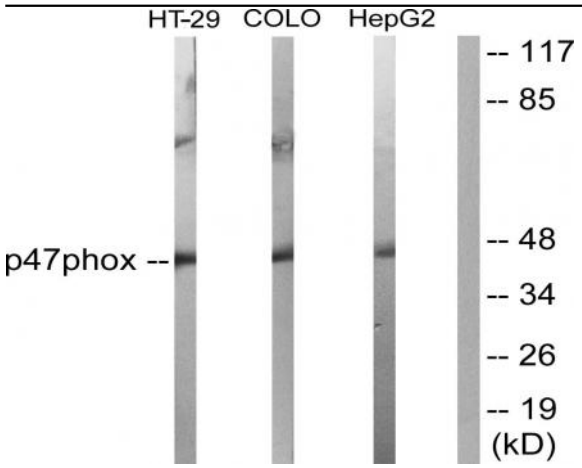
Western Blot analysis of various cells using p47-phox Polyclonal Antibody



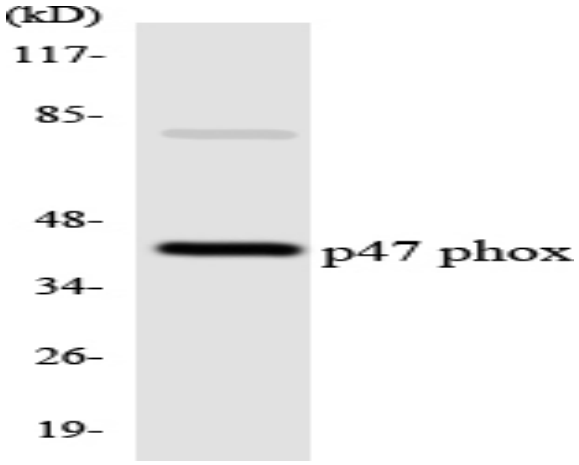
Western Blot analysis of COLO205 cells using p47-phox Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human tonsil tissue, using p47 phox Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT-29, COLO205, and HepG2 cells, , using p47 phox Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using p47 phox antibody.