

Catalase (phospho Tyr386) Polyclonal Antibody

Catalog No: #14010

Package Size: #14010-1 50ul #14010-2 100ul

Description

Product Name	Catalase (phospho Tyr386) Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB,IHC-p,IF(paraffin section),ELISA
Species Reactivity	Human,Mouse,Rat
Specificity	Phospho-Catalase (Y386) Polyclonal Antibody detects endogenous levels of Catalase protein only when phosphorylated at Y386.
Immunogen Description	The antiserum was produced against synthesized peptide derived from human Catalase around the phosphorylation site of Tyr385. AA range:361-410
Conjugates	Unconjugated
Other Names	CAT; Catalase
Accession No.	Swiss Prot:P04040GeneID:847
SDS-PAGE MW	59
Concentration	1 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	-20°C/1

Application Details

Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

Background

catalase(CAT) Homo sapiens This gene encodes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene. [provided by RefSeq, Oct 2009],

Note: This product is for in vitro research use only and is not intended for use in humans or animals.