

Catalase Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP01222
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human Catalase. AA range:361-410
Mol wt	59756
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	IHC-p, ELISA
Concentration	1 mg/ml
Full name	Catalase Antibody
Synonyms	CAT; Catalase

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

CAT (catalase) 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 CAT have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by CAT.

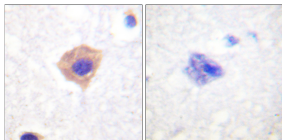
Recommended Dilution

IHC: 1: 100 - 1: 300

ELISA: 1: 20000

Not yet tested in other applications.

Images



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

Storage

-20°C for one year