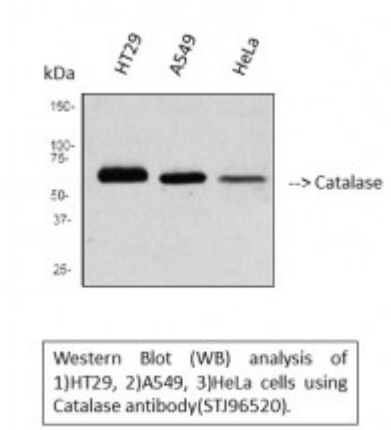
Anti-Catalase antibody



Western Blot (WB) analysis of 1)HT29, 2)A549, 3)HeLa cells using Catalase antibody(STJ96520).

Description	Catalase is a protein encoded by the CAT gene which is approximately 59,7 kDa. Catalase is localised to the peroxisome. It is involved in detoxification of reactive oxygen species, the innate immune system, purine metabolism and longevity regulating pathway. It acts as a key antioxidant enzyme in the bodies defence against oxidative stress. It converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Catalase is expressed in the liver, cells of the nervous system, blood, kidney and eye. Mutations in the CAT gene may result in Refsum disease. STJ96520 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Catalase protein.

Model	STJ96520
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human Catalase.
Immunogen Region	C-terminal
Gene ID	847
Gene Symbol	CAT
Dilution range	WB 1:500-1:2000IHC-P 1:100-300ELISA 1:20000
Specificity	Catalase Polyclonal Antibody detects endogenous levels of Catalase protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-

	chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Catalase
Molecular Weight	60 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1516OMIM:115500
Alternative Names	Catalase
Function	Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells.
Cellular Localization	Peroxisome.
Post-translational Modifications	The N-terminus is blocked.