

## Product datasheet for **AP22504PU-N**

### Catalase (CAT) (498-511) Goat Polyclonal Antibody

#### Product data:

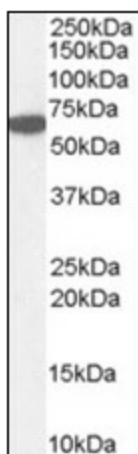
Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/32000. <b>Immunohistochemistry on Paraffin Sections:</b> 2 µg/ml. <b>Western Blot:</b> 0.3 - 1 µg/ml.
Reactivity:	Canine, Human, Mouse, Bat, Equine, Hamster, Monkey
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from an internal region of human CAT
Specificity:	This antibody detects Catalase at aa 498-511.
Formulation:	Tris-buffered saline, pH 7.3, 0.5% BSA, 0.02% sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	catalase
Database Link:	<a href="#">Entrez Gene 12359 Mouse</a> <a href="#">Entrez Gene 717406 Monkey</a> <a href="#">Entrez Gene 847 Human P04040</a>
Background:	CAT / Catalase is 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.
Synonyms:	CAT, Peroxisome Marker
Protein Families:	Druggable Genome



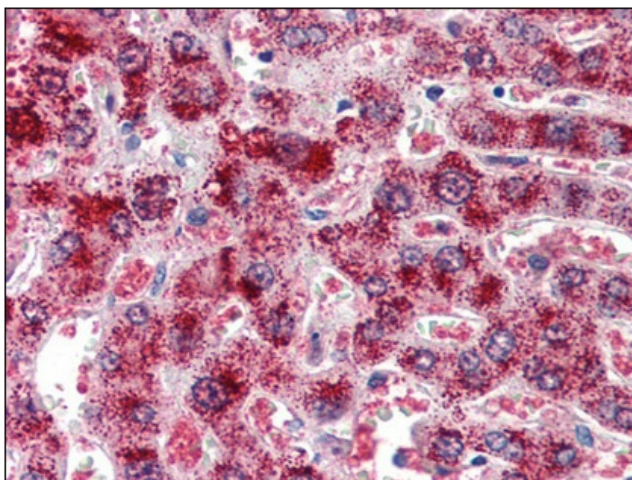
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**Protein Pathways:** Amyotrophic lateral sclerosis (ALS), Metabolic pathways, Methane metabolism, Tryptophan metabolism

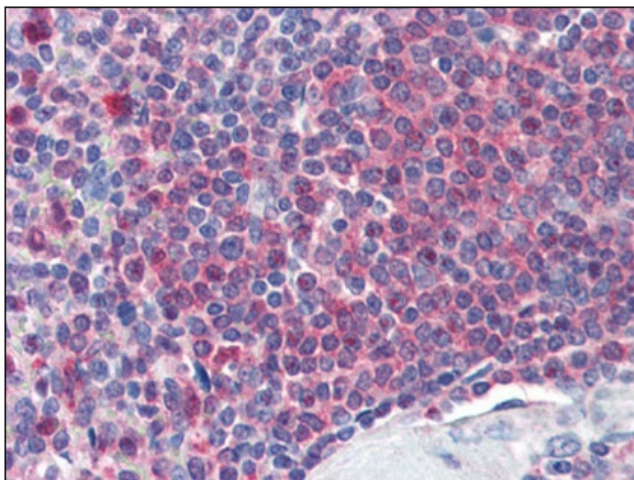
**Product images:**



Western Blot analysis of human kidney lysate



Human Liver (formalin-fixed, paraffin-embedded) stained with CAT antibody at 2 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Spleen (formalin-fixed, paraffin-embedded) stained with CAT antibody at 2 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.