

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat Catalase in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Catalase Met1-Leu527 Accession # P04040
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Cells have evolved complex mechanisms to maintain redox balance and defend against oxidative stress. Catalase is a tetrameric enzyme comprised of four 60 kDa subunits. Catalase is typically localized in the peroxisome where it functions as an antioxidant, protecting cells from damage due to oxidative stress. Catalase converts reactive oxygen species, such as H₂O₂, into water and O₂. Human Catalase shares 89% homology to mouse and rat Catalase. The cells redox environment can serve as an important signaling switch or trigger to initiate a number of cellular processes, including gene expression, differentiation, proliferation and apoptosis.

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