

## SMOX Polyclonal Antibody

Catalog No: #27556



Package Size: #27556-1 50ul #27556-2 100ul

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## Description

Product Name	SMOX Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Description	Recombinant fusion protein of human SMOX (NP_787034.1).
Other Names	SMOX; C20orf16; PAO; PAO-1; PAO1; PAOH; PAOH1; SMO; spermine oxidase
Accession No.	Swiss-Prot#:Q9NWM0NCBI Gene ID:54498
Uniprot	Q9NWM0
GeneID	54498;
Calculated MW	Refer to Figures
Formulation	Avoid freeze / thaw cycles. Buffer: PBS with 50% glycerol, pH7.4.
Storage	Store at -20°C

## Application Details

WB 1:500 - 1:2000

IHC 1:50 - 1:200

## Background

Polyamines are ubiquitous polycationic alkylamines which include spermine, spermidine, putrescine, and agmatine. These molecules participate in a broad range of cellular functions which include cell cycle modulation, scavenging reactive oxygen species, and the control of gene expression. These molecules also play important roles in neurotransmission through their regulation of cell-surface receptor activity, involvement in intracellular signalling pathways, and their putative roles as neurotransmitters. This gene encodes an FAD-containing enzyme that catalyzes the oxidation of spermine to spermadine and secondarily produces hydrogen peroxide. Multiple transcript variants encoding different isoenzymes have been identified for this gene, some of which have failed to demonstrate significant oxidase activity on natural polyamine substrates. The characterized isoenzymes have distinctive biochemical characteristics and substrate specificities, suggesting the existence of additional levels of complexity in polyamine catabolism.

Note: This product is for in vitro research use only