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Lactoperoxidase Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55271

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	P22079
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80288

Additional Information

Gene ID	4025
Other Names	Lactoperoxidase, LPO, 1.11.1.7, Salivary peroxidase, SPO, LPO, SAPX
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	LPO (HGNC:6678)
Synonyms	SAPX
Function	Heme-containing oxidoreductase which catalyzes the conversion of thiocyanate (SCN(-)) into antimicrobial agent hypothiocyanous acid (OSCN(-)) in the presence of hydrogen peroxide (H2O2) (By similarity). Also involved in the conversion of iodide (I(-)) into hypoiodite (IO(-)) in the presence of H2O2 (By similarity). Responsible for the inactivation of a wide range of micro-organisms and hence, important component of defense mechanism (PubMed:12626341). Shows antibacterial properties against Pseudomonas aeruginosa (PubMed:12626341). The lactoperoxidase-SCN(-)-H2O2 system shows antibacterial properties against Burkholderia cepacia and Haemophilus influenzae in vitro (PubMed:12626341). Present in mammary and salivary gland secretions and may contribute to airway host defense against infection (PubMed:12626341). May contribute to maintaining an appropriate H2O2 cellular level, therefore protecting cells from H2O2-caused injuries and inflammation (By similarity).

Cellular Location	Secreted. Cytoplasm {ECO:0000250|UniProtKB:Q5SW46}
Tissue Location	Mammary gland, milk and salivary gland. Found in bronchial submucosal glands.