

**Lactoperoxidase Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55271**

## Specification

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### Lactoperoxidase Polyclonal Antibody - Product Information

Application	<b>WB, IHC-P, IHC-F, IF, ICC, E</b>
Primary Accession	<a href="#">P22079</a>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>80288</b>

### Lactoperoxidase Polyclonal Antibody - Additional Information

**Gene ID** 4025

#### Other Names

Lactoperoxidase, LPO, 1.11.1.7, Salivary peroxidase, SPO, LPO, SAPX

#### Format

0.01M TBS(pH7.4), 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.

### Lactoperoxidase Polyclonal Antibody - 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](http://www.uniprot.org/citations/12626341)). Shows antibacterial properties against *Pseudomonas aeruginosa* (PubMed:[12626341](http://www.uniprot.org/citations/12626341)). The lactoperoxidase-SCN(-)-H2O2 system shows antibacterial properties against *Burkholderia cepacia* and *Haemophilus influenzae* in vitro (PubMed:[12626341](http://www.uniprot.org/citations/12626341)). Present in mammary and salivary gland secretions and may contribute to airway host defense against infection (PubMed:[12626341](http://www.uniprot.org/citations/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.

**Lactoperoxidase Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Lactoperoxidase Polyclonal Antibody - Images**