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# EPX antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI11935

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | P11678 |
| **Other Accession** | NM_000502, NP_000493 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Pig, Horse |
| **Predicted** | Mouse, Rat, Rabbit, Pig, Dog, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 81040 |

## Additional Information

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|---|---|
| **Gene ID** | 8288 |
| **Alias Symbol** | EPO, EPP, EPX-PEN |
| **Other Names** | Eosinophil peroxidase, EPO, 1.11.1.7, Eosinophil peroxidase light chain, Eosinophil peroxidase heavy chain, EPX, EPER, EPO, EPP |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-EPX antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | EPX antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

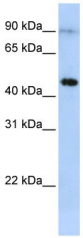
## Protein Information

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|---|---|
| **Name** | EPX ( HGNC:3423) |
| **Function** | Heme-containing oxidoreductase that catalyzes the oxidation of small anions, such as nitrite, halides (e.g bromide and chloride (at pH 6.5)) and pseudohalides (e.g thiocyanate) by using hydrogen peroxide to generate the corresponding reactive species hypobromite, hypochlorite, hypothiocyanous acid, and nitrogen dioxide (PubMed:11013238, PubMed:11112545, PubMed:12540536, PubMed:7852368). Also oxidizes thiocyanate (SCN(-)) to cyanate (OCN(-)) (PubMed:11112545). Functionally involved in inflammatory responses and exhibits antimicrobial activity (PubMed:12540536, PubMed:27587397). Can also oxidize amino acid residues on proteins and generate bromination, nitration and carbamoylation post-translational |

modifications, respectively (PubMed:18694936, PubMed:27587397). Mediates the nitration of tyrosine (3-nitrotyrosine) which is only observed in secondary granule proteins in mature resting eosinophils in the presence of the cosubstrates, hydrogen peroxide and nitrite (PubMed:18694936). Mediates oxidation of tyrosine residues on proteins in eosinophils to form brominating species, 3-bromotyrosine and 3, 5-dibromotyrosine in the presence of hydrogen peroxide and bromide (By similarity). Promotes protein carbamoylation at sites of inflammation during asthma by using thiocyanate and hydrogen peroxide to form cyanate which carbamoylates lysine residues to form homocitrulline (PubMed:27587397).

**Cellular Location** Cytoplasmic granule. Note=Cytoplasmic granules of eosinophils.

## Images




WB Suggested Anti-EPX Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: MCF7 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.