

Azurocidin Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58680

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P20160
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26886

Additional Information

Gene ID	566
Other Names	Azurocidin, Cationic antimicrobial protein CAP37, Heparin-binding protein, HBP, hHBP, AZU1 (HGNC:913)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	AZU1 (HGNC:913)
Function	This is a neutrophil granule-derived antibacterial and monocyte- and fibroblast-specific chemotactic glycoprotein. Binds heparin. The cytotoxic action is limited to many species of Gram- negative bacteria; this specificity may be explained by a strong affinity of the very basic N-terminal half for the negatively charged lipopolysaccharides that are unique to the Gram-negative bacterial outer envelope. It may play a role in mediating recruitment of monocytes in the second wave of inflammation. Has antibacterial activity against the Gram-negative bacterium <i>P.aeruginosa</i> , this activity is inhibited by LPS from <i>P.aeruginosa</i> . Acting alone, it does not have antimicrobial activity against the Gram-negative bacteria <i>A.actinomycetemcomitans</i> ATCC 29532, <i>A.actinomycetemcomitans</i> NCTC 9709, <i>A.actinomycetemcomitans</i> FDC-Y4, <i>H.aphrophilus</i> ATCC 13252, <i>E.corrodens</i> ATCC 23834, <i>C.sputigena</i> ATCC 33123, <i>Capnocytophaga</i> sp ATCC 33124, <i>Capnocytophaga</i> sp ATCC 27872 or <i>E.coli</i> ML-35. Has antibacterial activity against <i>C.sputigena</i> ATCC 33123 when acting synergistically with either elastase or cathepsin G.
Cellular Location	Cytoplasmic granule membrane; Peripheral membrane protein; Cytoplasmic side. Note=Localizes to azurophil granules of neutrophil granulocytes. Also

called primary granules, these specialized lysosomes of the neutrophil formed early during promyelocyte development store antibacterial proteins and peptides

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