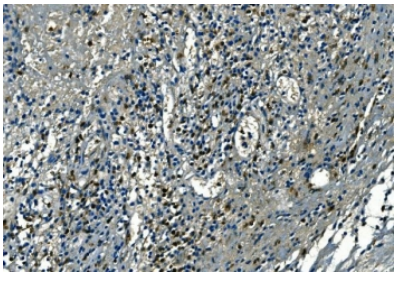
Azurocidin Antibody / AZU1 / CAP37 (RQ6825)

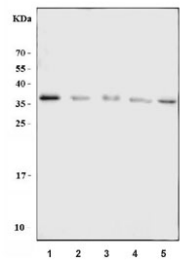
Catalog No.	Formulation	Size
RQ6825	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

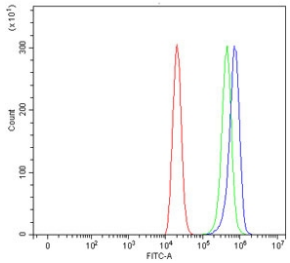
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P20160
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Azurocidin antibody is available for research use only.



IHC staining of FFPE human appendicitis tissue with Azurocidin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat spleen, 2) rat thymus, 3) mouse spleen, 4) mouse thymus and 5) mouse RAW264.7 cell lysate with Azurocidin antibody. Expected molecular weight: 27-37 kDa.



Flow cytometry testing of human ThP-1 cells with Azurocidin antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Azurocidin antibody.

Description

Azurocidin also known as cationic antimicrobial protein CAP37 or heparin-binding protein (HBP) is a protein that in humans is encoded by the AZU1 gene. Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. This gene encodes a preproprotein that is proteolytically processed to generate a mature azurophil granule antibiotic protein, with monocyte chemotactic and antimicrobial activity. It is also an important multifunctional inflammatory mediator. This encoded protein is a member of the serine protease gene family but it is not a serine proteinase, because the active site serine and histidine residues are replaced. The genes encoding this protein, neutrophil elastase 2, and proteinase 3 are in a cluster located at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation.

Application Notes

Optimal dilution of the Azurocidin antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids I27-N245) was used as the immunogen for the Azurocidin antibody.

Storage

After reconstitution, the Azurocidin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com