



# Defensin $\alpha$ 4 Polyclonal Antibody

Catalog No	BYab-03814
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	DEFA4
Protein Name	Neutrophil defensin 4
Immunogen	The antiserum was produced against synthesized peptide derived from human Defensin alpha4. AA range:27-76
Specificity	Defensin $\alpha$ 4 Polyclonal Antibody detects endogenous levels of Defensin $\alpha$ 4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	DEFA4; DEF4; Neutrophil defensin 4; Defensin; $\alpha$ 4; HNP-4; HP-4
Observed Band	
Cell Pathway	Secreted . Cytoplasmic vesicle, secretory vesicle . Stored as mature peptide in neutrophil granules. .
Tissue Specificity	Expressed in neutrophils (at protein level) (PubMed:2843187, PubMed:2500436, PubMed:2501794). Expressed in bone marrow (PubMed:8469233).
Function	function:Has antimicrobial activity against Gram-negative bacteria, and to a lesser extent also against Gram-positive bacteria and fungi. Protects blood cells against infection with HIV-1 (in vitro). Inhibits corticotropin (ACTH)-stimulated corticosterone production.,similarity:Belongs to the alpha-defensin family.,subunit:Homodimer.,
Background	defensin alpha 4(DEFA4) Homo sapiens Defensins are a family of antimicrobial and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory tract, urinary tract, and vagina. Members of the defensin family are highly similar in protein sequence

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and distinguished by a conserved cysteine motif. Several alpha defensin genes are clustered on chromosome 8. This gene differs from other genes of this family by an extra 83-base segment that is apparently the result of a recent duplication within the coding region. The protein encoded by this gene, defensin, alpha 4, is found in the neutrophils; it exhibits corticostatic activity and inhibits corticotropin stimulated corticosterone production. [provided by RefSeq, Oct 2014],

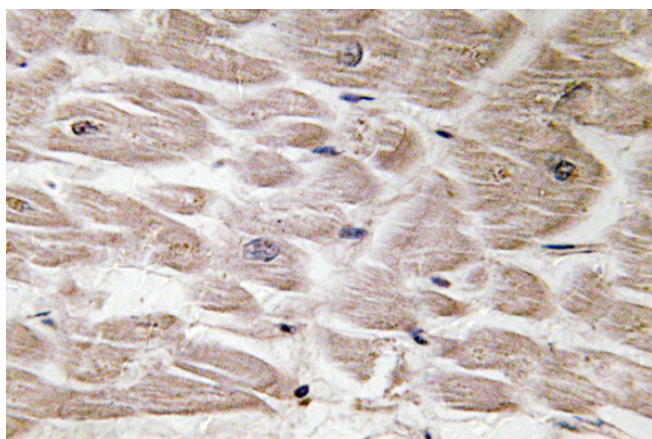
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemistry analysis of Defensin  $\alpha$ 4 antibody in paraffin-embedded human heart tissue.