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anti-DEFA5 antibody

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Publications



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Quantity:	100 μg	
Target:	DEFA5	
Reactivity:	Human	
Host:	Mouse	
Clonality:	Monoclonal	
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoassay (IA)	
Product Details		
Clone:	8C8	
Sterility:	0.2 μm filtered	
Target Details		
Target:	DEFA5	
Alternative Name:	alpha-Defensin 5 (DEFA5 Products)	
Background:	The monoclonal antibody 8C8 recognizes human alpha-defensin 5 (HD5). HD5 is an antimicrobial peptide produced by Paneth cells, specialized epithelial cells of the small intestinal crypt. HD5 is stored in the Paneth cells as propeptide (aa 20-94) and released as	

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functions in maintaining the correct microbial balance in the intestine. Transgenic mice that

Expression levels of HD5 are negatively correlated to intestinal infection. HD5 is a useful marker

express HD5 are protected from lethal challenge caused by Salmonella typhimurium.

for intestinal metaplasia of the upper gastrointestinal tract. HD5 expression has also been detected in the upper half of the stratified squamous epithelium of the vagina and ectocervix with increasing intensity toward the lumen. Secreted HD5 is detectable in cervicovaginal lavages, with highest concentrations during the secretory phase of the menstrual cycle. The monoclonal antibody 8C8 was raised against recombinant HD5 (aa 20-94) and recognizes the propeptide and the partially processed forms (aa 36-94 and 56-94), but it hardly recognizes mature peptide. No cross reactivity with HD6, lysozyme, or sPLA2 could be detected. Aliases DEFA5

Application Details

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App	lication	inotes:

For immunohistology and Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

Restrictions:

For Research Use only

Handling

Buffer:	PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	4 °C	
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.	
Expiry Date:	12 months	

Publications

Product cited in:

Kelly, Bajaj-Elliott, Katubulushi, Zulu, Poulsom, Feldman, Bevins, Dhaliwal: "Reduced gene expression of intestinal alpha-defensins predicts diarrhea in a cohort of African adults." in: **The Journal of infectious diseases**, Vol. 193, Issue 10, pp. 1464-70, (2006) (PubMed).

Shen, Porter, Reynoso, Shen, Ghosh, Connor, Drazba, Rho, Gramlich, Li, Ormsby, Sy, Ganz, Bevins: "Human defensin 5 expression in intestinal metaplasia of the upper gastrointestinal

tract." in: Journal of clinical pathology, Vol. 58, Issue 7, pp. 687-94, (2005) (PubMed).

Kelly, Feakins, Domizio, Murphy, Bevins, Wilson, McPhail, Poulsom, Dhaliwal: "Paneth cell granule depletion in the human small intestine under infective and nutritional stress." in: **Clinical and experimental immunology**, Vol. 135, Issue 2, pp. 303-9, (2004) (PubMed).