



Antimicrobial peptides

Innate Immunity · Acute phase proteins · Western blot · **Antimicrobial peptides** · Complement Research · LPS, Microbial toxins · Flow cytometry · Scavenger receptors · TLR · **Assays** · Inflammation · Adhesion molecules · Immunohistochemistry · Coagulation molecules · Cytokines · Chemokines · **Antibodies** · Cell & Tissue damage · Functional studies · Lipid binding proteins · Immunoprecipitation · Oxidative stress · Organ & Tissue related research · **Proteins** · Mouse mAb isotyping kits

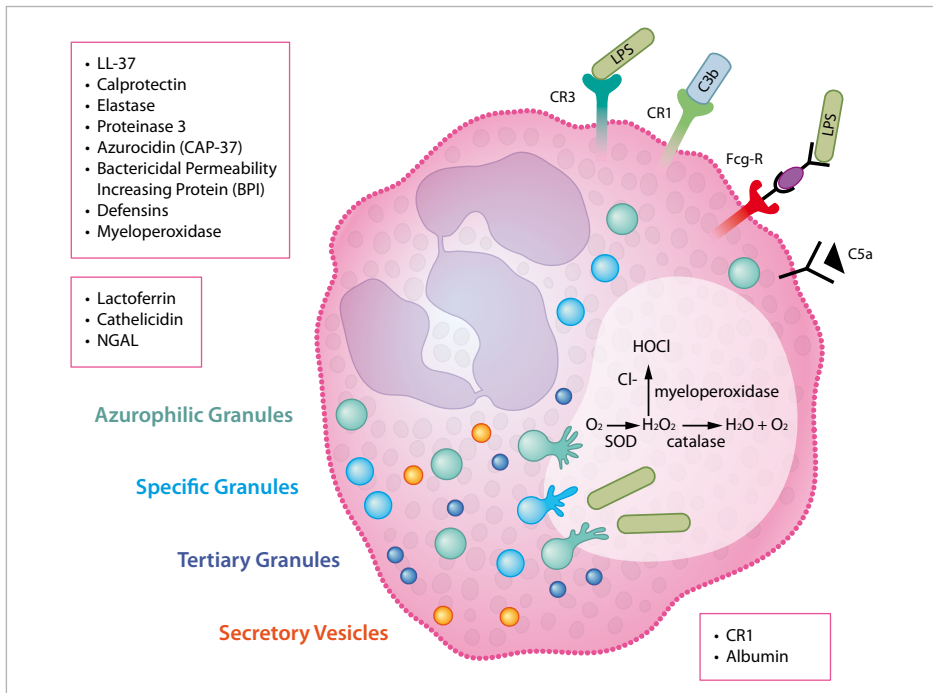


General introduction

Hycult Biotech develops, produces and markets antibodies, antibody based products and more specifically immunoassays for innate immunity and directly related fields, with an emphasis on complement, neutrophil proteins, TLR, scavenger receptors and acute phase proteins. Furthermore, we have a strong interest in progressing research in the area of inflammation and cell damage caused by pathogens or oxidation factors.

Introduction product group

Antimicrobial peptides and proteins form an important means of innate host defense in eukaryotes. They have a broad ability to kill microbes. Large antimicrobial proteins (>100 amino acids) are often lytic enzymes, nutrient-binding proteins or contain sites that target specific microbial macromolecules. Small antimicrobial peptides affect the structure and/or function of microbial cell membranes. A multitude of antimicrobial peptides has been found in epithelial layers, phagocytes and body fluids of multicellular animals including man. Beside their role as endogenous antibiotics, antimicrobial peptides are involved in cytokine release, chemotaxis, angiogenesis, wound repair, and regulation of the adaptive immune system.



In this Product Leaflet the following abbreviations for the applications will be cited:

- FC:** Flow Cytometry
- FS:** Functional studies
- IH:** Immunohistochemistry, F: Frozen sections and P: Paraffin sections
- IA:** Immunoassays
- IF:** Immunofluorescence
- IP:** Immunoprecipitation
- WB:** Western Blot
- pAb:** Polyclonal antibody

More information about products within the field of Innate Immunity, Antimicrobial peptides, Microbial toxins, TLR, Inflammation, Cell & Tissue damage, Lipid binding proteins, and Oxidative stress can be found on our website. Please feel free to subscribe to our newsletter to make sure you will be up-to-date of Hycult Biotech's product information!

Hycult Biotech has worldwide distribution through a network of over 45 distributors. If you have questions regarding pricing and ordering, please contact your local distributor. Distributor information can be found on our website.

We understand technical support is part of the deal when you are interested in or have purchased one of our products. For product specific information please have a look at our website: www.hycultbiotech.com or contact us: support@hycultbiotech.com.

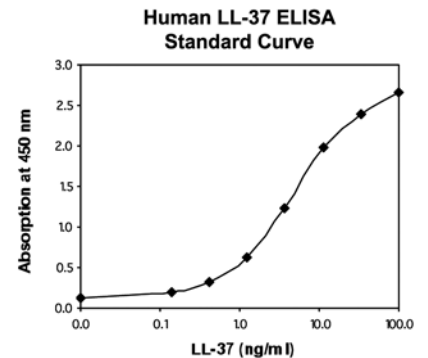
Why scientists buy our products:

- Unique products · Sensitivity · Specificity · Easy to use · Value for money · Two-plates kits · Functional studies · Technical support ·
- Standardized assays · Quality control · Inter/intra variation <10% · Well documented products · Broad in applications ·

Human

Assays

Product name	Quantity	Cat.#
BPI	2 x 96 det.	HK314
Calprotectin	2 x 96 det.	HK325
Elafin/SKALP	2 x 96 det.	HK318
Elastase	2 x 96 det.	HK319
HNP1-3	2 x 96 det.	HK317
Lactoferrin	2 x 96 det.	HK329
LBP	2 x 96 det.	HK315
LL37	2 x 96 det.	HK321
MPO	2 x 96 det.	HK324
NGAL	2 x 96 det.	HK330
SLPI	2 x 96 det.	HK316

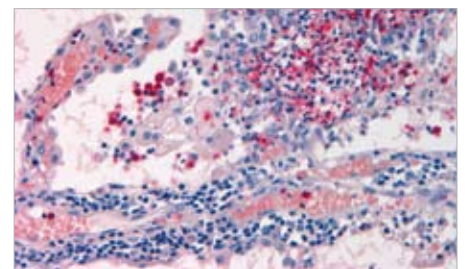


Antibodies

Product name	Clone name	Applications	Quantity	Cat.#
BPI	3F9	IA	100 µg	HM2041
BPI	4H5	IA	100 µg	HM2042
BPI	4E3	FC FS IA	100 µg	HM2170
BPI	pAb	IA IP	100 µg	HP9022
Calprotectin	27E10	F FC IA IP P W	100 µg	HM2156
Calprotectin, biotinylated	27E10	F FC IA P W	50 µg	HM2156BT
Calprotectin, FITC	27E10	F FC IA P W	100 µg	HM2156F
CHIPS (C-terminus)	JCC1	F FC FS IA P W	100 µg	HM6003
CHIPS (N-terminus)	JNC1	F FC FS IA P W	100 µg	HM6004
CRISP-3, Human	pAb	IA P W	100 µg	HP9033
Defensin 5	8C8	F IA W	100 µg	HM2228
Elafin/SKALP	TRAB20	IA P W	100 µg	HM2062
Elafin/SKALP	TRAB2F	IA P W	100 µg	HM2063
Elafin/SKALP	pAb	IA P W	1 ml	HP9025
Elastase	265-3K1	IA W	100 µg	HM2174
Elastase	pAb	IA	100 µg	HP9027
Galectin-3	B2C10	F FC FS IA P W	100 µg	HM2186
HNP1-3	D21	F FC IA P W	100 µg	HM2058
HNP1-3, biotinylated	D21	F FC IA P W	50 µg	HM2059
Lactoferrin	265-1K1	F IA W	100 µg	HM2173
Lactoferrin	pAb	IA IP W	100 µg	HP9034
LBP	6G3	FS IA IP	100 µg	HM2043
LBP	1C7	FS IA IP	100 µg	HM2044
LBP	pAb	IA IP W	100 µg	HP9023
Lysozyme	pAb	IA IP W	100 µg	HP9035
SLPI	31	F IA IP P W	100 µg	HM2037
SLPI, biotinylated	31	F IA P W	50 µg	HM2038
SLPI	pAb	IA IP W	100 µg	HP9024

Proteins/Peptides

Product name	Quantity	Cat.#
CHIPS	10 µg	HC4012
Elafin/SKALP	50 µg	HC4011
HNP1-3	100 µg	HC4014
LBP, natural	10 µg	HC4010
LL37	50 µg	HC4013
LBP - peptide (aa86-99)	100 µg	HC4030-01
LBP - peptide (aa86-99)	0.5 mg	HC4030-05
LBP - peptide (aa86-99)	1.0 mg	HC4030-10

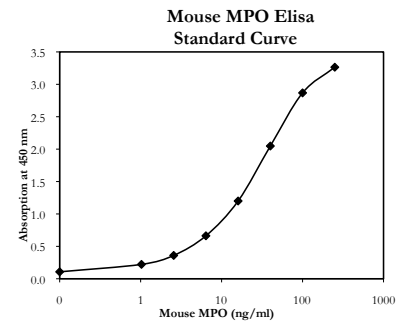


Granulocytes in a nasal biopsy from a Wegener patient stained for Proteinase 3. Immunohistochemical staining of paraffin sections with antibody WGM2 (Cat. # HM2171)

Other

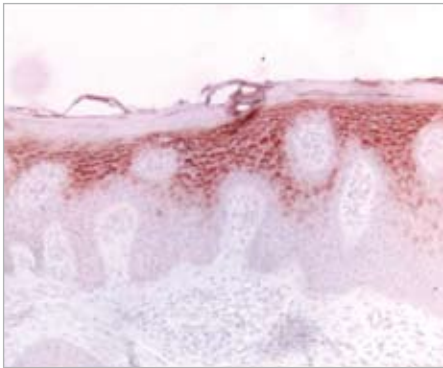
Assays

Product name	Quantity	Cat.#
LBP, Mouse	2 x 96 det.	HK205
LBP, various species	2 x 96 det.	HK503
MPO, Mouse	2 x 96 det.	HK210
MPO, Rat	2 x 96 det.	HK105

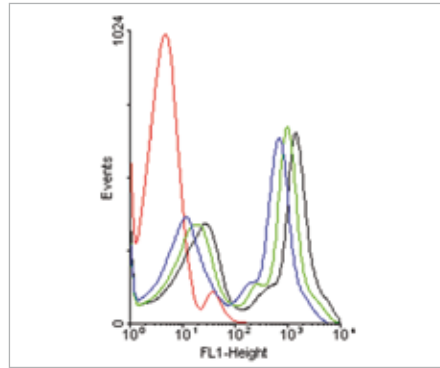


Antibodies

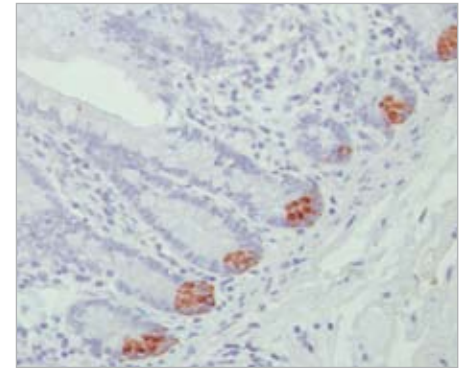
Product name	Clone name	Applications	Quantity	Cat.#
Lactoferricin, Bovine	5F12.1.2	IA W	100 µg	HM4012
Lactoferrin, Bovine	a-bC-lobe	IA W	100 µg	HM4013
Lactoferrin, Bovine	pAb	IA IP W	100 µg	HP7001
LBP Mouse	M 330-19	FC IA W	100 µg	HM1026
LBP Mouse	RR433-8	FC IA W	100 µg	HM1027
LBP Mouse	M392-2	IA W	100 µg	HM1028
MPO, Rat	2D4	F FC IA IF	100 µg	HM3030
MPO, Rat, biotinylated	2D4	F FC IA IF	50 µg	HM3030BT
MPO, Rat, FITC	2D4	F FC IA IF	100 µg	HM3030F
NP-5, Rabbit	R3	F FC IA P W	100 µg	HM4008
Polymyxin B	45	IA W	200 µg	HM2047



Immunohistochemical staining of Elafin with anti-Elafin Pab on paraffin sections of psoriatic human skin tissue. (Cat. # HP9025)



Flow cytometric detection of rat MPO in BM neutrophils (CD11b-hi) with monoclonal antibody to rat MPO (nAb 2D4, Cat. # HM3030F). Red is negative control. Black is 4 µg/ml of MPO-FITC. Green is 2 µg/ml of MPO-FITC. Blue is 1 µg/ml of MPO-FITC.



HD5 expression in crypts. Staining of frozen sections with monoclonal antibody to human HD5. (mAb 8C8, Cat. # HM2228)