



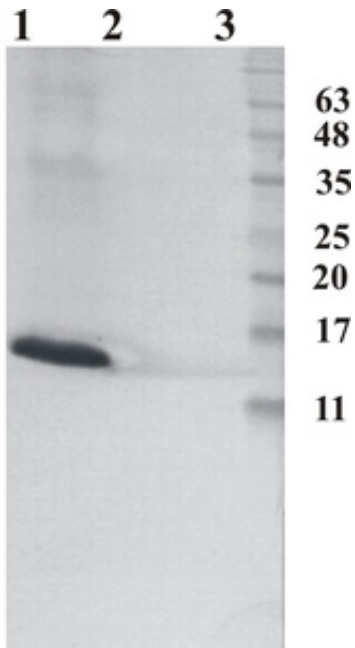
## Mouse mAb to human Ribonuclease 7 (clone 4C4)

Catalogue #	407-100
Immunogen:	Human Ribonuclease 7
Immunogen Description:	Recombinant human RNase 7 protein produced by CHO-based Icosagen Cell factory Ltd. proprietary suspension cell line
Alternative Names:	RNase 7, SAP-2 (Skin-derived antimicrobial protein 2)
Uniprot ID:	Q9H1E1
Clonality:	Mouse monoclonal
Clone:	4C4
Class:	mIgG1
Reactivity:	Human Ribonuclease7
Application:	ELISA, WB in non-reduced conditions; IHC,IF
Protocol:	Monoclonal antibody optimal dilution has to be established practically for each antigen and assay format
ELISA:	0,05-0,1 µg/ml
IF:	0,2-20 µg/ml
IHC:	2-20 µg/ml
Purification:	Protein G purification
Buffer:	PBS pH 7.4, with 0.1% sodium azide
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at -20 or -70 °C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple freeze-thaw cycles as product degradation may result
Background:	RNase 7 exhibit potent ribonuclease activity and thus may contribute to the well-known

ribonuclease activity of human skin. RNase 7 revealed broad spectrum antimicrobial activity against many pathogenic microorganisms and remarkably potent activity (lethal dose of 90% < 30 nm) against a vancomycin-resistant *Enterococcus faecium* (Harder and Schröder, 2002)

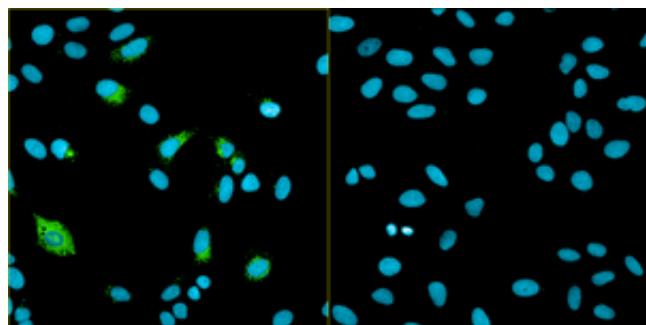
#### References

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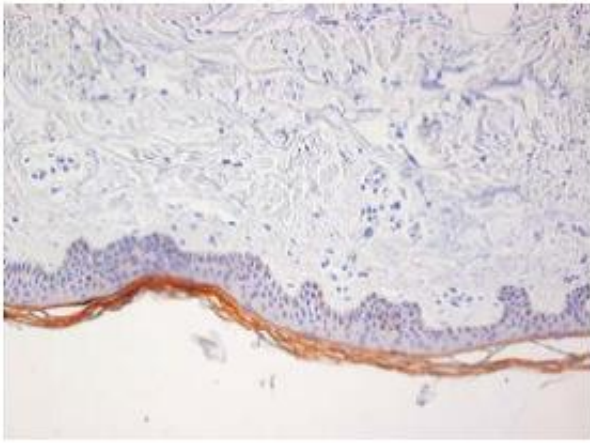


**Figure 1. Western Blot analysis of RNase 7 antibody 4C4.** Human RNase 7 was expressed by CHOEBNALT85 cell line. 10  $\mu$ l of cell culture supernatant was loaded per lane. Lane 1 non-reduced conditions; Lane 2 Reduced conditions; Lane 3 Prestained Protein Ladder, Naxo 8003

**A. B.**



**Figure 2. Immunofluorescence testing anti-RNase7 monoclonal antibody 4C4.** Assay was carried out with U2OS cells expressing RNase 7. Antibody concentration of 0.5  $\mu$ g/ml was used. Nuclei were counterstained by DAPI. A. U2OS cells expressing RNase 7; B. Negative control (non-transfected U2OS cells)



**Figure 3. Immunohistochemistry analysis of RNase 7 antibody 4C4.** Analysis was performed using paraffin-embedded human skin tissue sample. Anti-RNase 7 antibody 4C4 (dilution 1:500) was used as primary antibody. Biotinylated anti-mouse antibody was used as secondary antibody. Streptavidin-HRP conjugate was used for visualization