

## What About the IPA(Invertebrate Primitive Antibody) Schema

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### ABSTRACT

The schema of sea star *Asterias rubens* IPA is purposed in this communication, since we discovered it (in 1986): it was isolated and analysed.

### INTRODUCTION

In 2014, it was asserted by the discovery of IPA gene which matches to human Igkappa gene.

In 1986, we discovered ( Ref.1) the sea star antibody-like; it was isolated and analysed by the mean of biochemistry.

Its molecular weight was of 120.000 daltons and was composed of 4 sub-units of 30.000 daltons each, without disulfide bonds. 30 years later ( Ref.2) we found an IGTKAPPA gene in the sea star (*Asterias rubens*),

the antibody-like became the IPA (Invertebrate Primitive Antibody). We suggested it was made of 4 KAPPA Light chains. Always later we discovered in the sea star genome ( Ref.3) a Fab gene, a Fc receptor gene, a Cr receptor gene ( Ref.3), at last MHC genes which match to Human genes.

We try to imagine the IPA in the following schema (Fig.1)

This schema, in conclusion, at the same time, causes a feeling of pride and anguish, in front of my responsibility as a scientist.

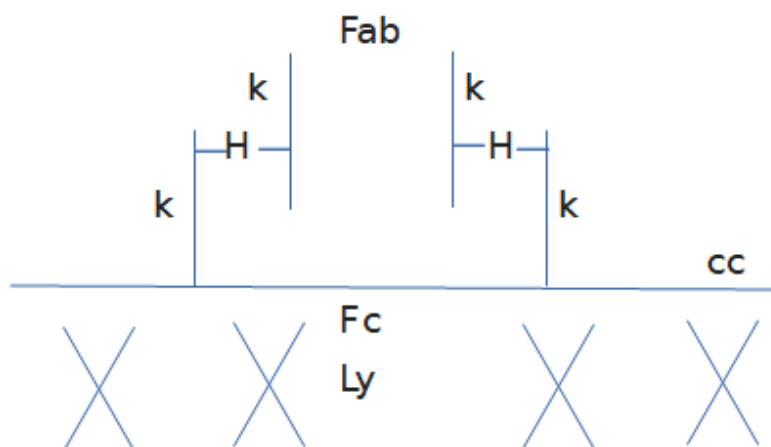


Figure1. IPA Schema

K: kappa chain; Ly: sea star Lymphocyte; cc: cell coat; H:Hydogen bond; Fab (fragment); Fc receptor

### REFERENCES

- [1] Delmotte F. Et al (1986) Eur.J.Immunol 111325-30
- [2] Vincent N. Et al (2014) Meta Gene 2 320-322
- [3] Leclerc M. (2018) MOJ Immunology 6(6) 326-27

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