

Identification and Characterization of Lipophorin Receptor from Wax Moth, *Galleria mellonella*

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Identification and characterization of lipophorin receptor from wax moth, *Galleria mellonella* have been conducted. In this work, ligand blotting was generally used to confirm the presence of lipophorin receptor.

As a result, lipophorin receptor of the fat body has an apparent molecular mass of 97 kDa under non-reducing condition SDS-PAGE. In the lipophorin concentration-dependent experiment, the receptor was detected at the concentration lower than 200 ug/ml and could be detected after 5 minutes when the reaction was started.

The receptor has an absolute requirement for Ca^{2+} and this result was supported by the experiment performed with EDTA. Also, suramin (Polysulfated polycyclic hydrocarbon) inhibited the binding of lipophorin to receptor.

In addition, the stage specific reactions of the receptor showed that the receptor was detected only in early last larval, prepupal and adult stages but not in the other stages.