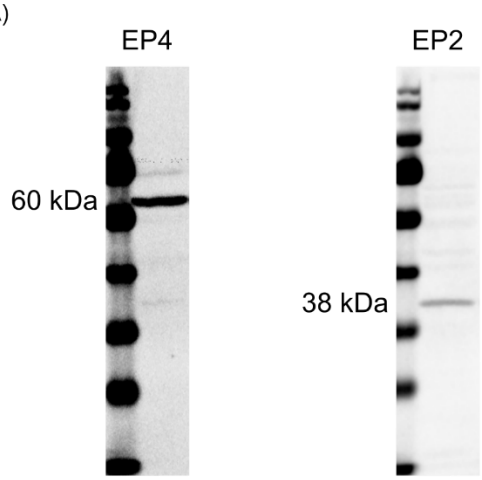
Table S4.1 List of selected protein receptors, Predicted molecular weight, Protein ID, Epitopes, Immunoblot and Immunolocalization dilutions

Receptor Name	Short name	Predicted Molecular Weight (kDa)	Protein ID	Peptide Antigen (Epitope)	Antigen Concentration	pAB Stock Concentration	Immunoblot Dilution	Immunolocalization Dilution
Prostaglandin E2 receptor 4	EP4	80	aten_0.1.m1.19428.m1	VSERGRNKDDKKSS	2mg/ml	0.915mg/ml	1:500	1:100
Prostaglandin E_2 receptor 2	EP2	30	aten_0.1.m1.582.m1	QTQDVSGVTDRQPA	2mg/ml	0.743mg/ml	1:500	1:100

A)



B)

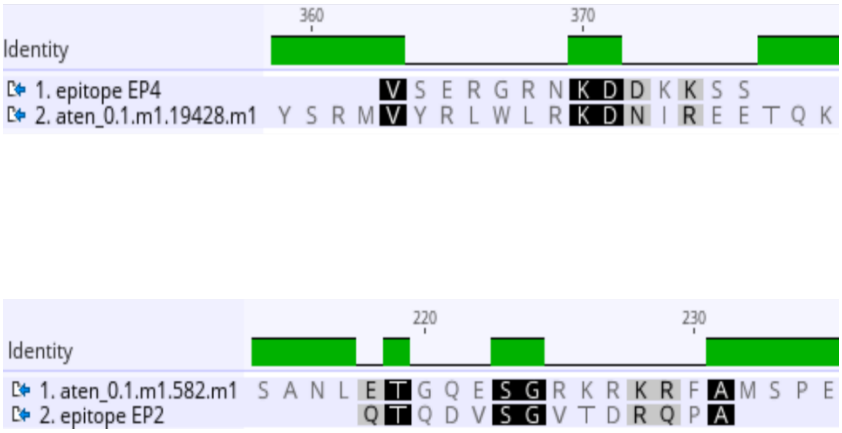


Figure S4.1 Immunoblot results of EP4 and EP2 in coral *Acropora tenuis* (A) and sequence alignment of coral proteins aten_0.1.m1.19428.m1 and aten_0.1.m1.582 against Aiptasia EP4 and EP2 epitopes (B).

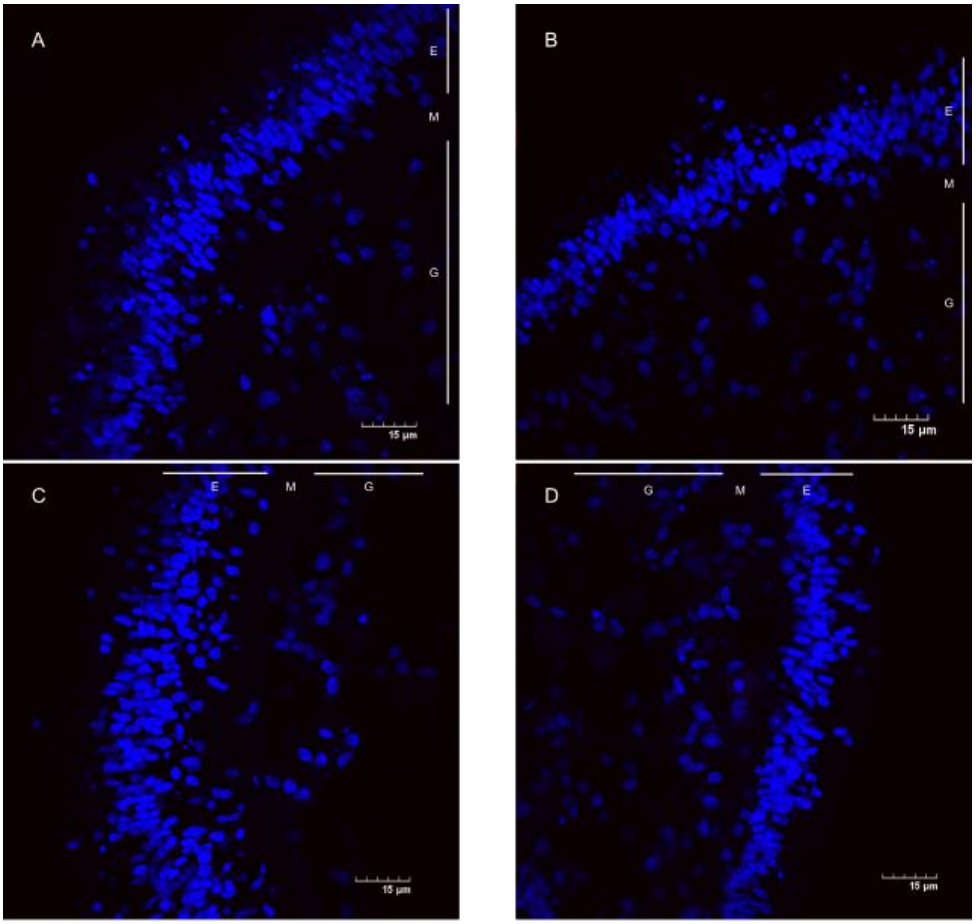


Figure S4.2 Immunolocalization controls in coral larvae consisting of antigen pre-absorption for (A) anti-EP2, (B) anti-EP4, and secondary antibody controls in symbiotic (C) and aposymbiotic (D) anemones. Blue, nuclear staining using DAPI. G = gastrodermis; M = mesoglea, E = epidermis.

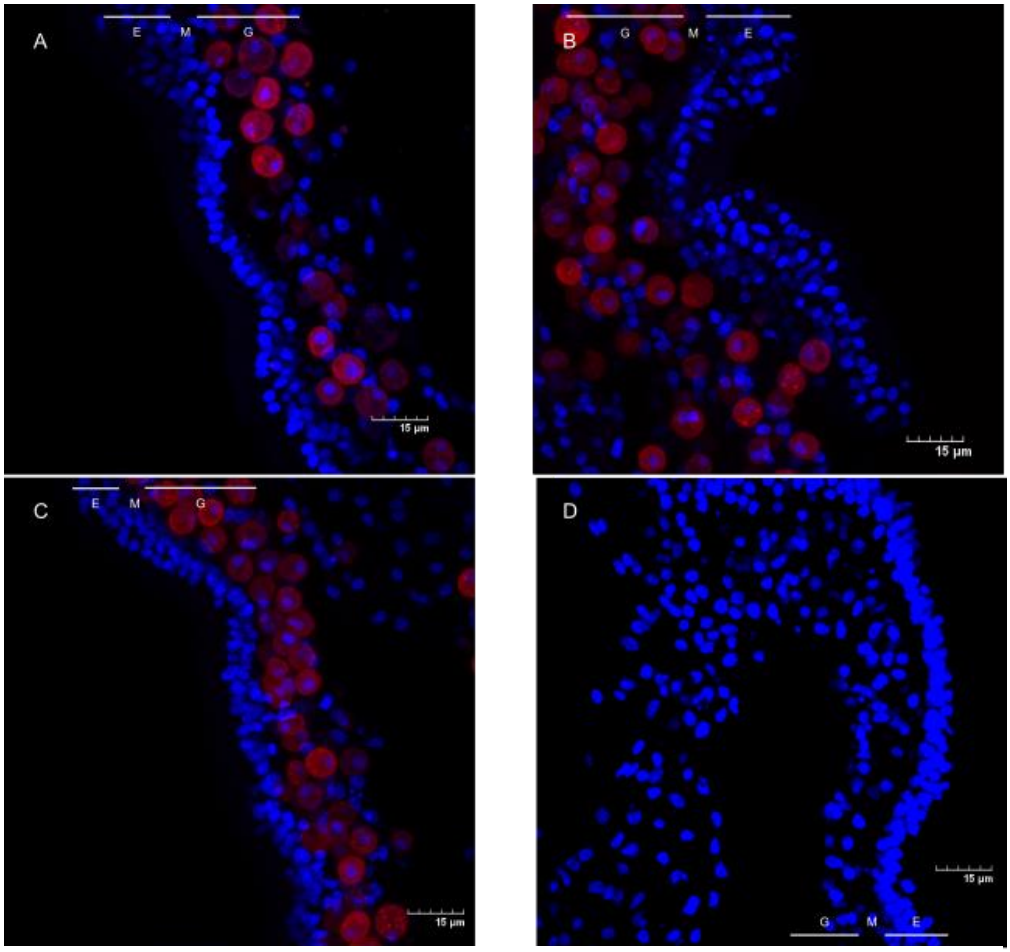


Figure S4.3 Immunolocalization controls in coral polyps consisting of antigen pre-absorption for (A) anti-EP2, (B) anti-EP4, and secondary antibody controls in symbiotic (C) and aposymbiotic (D) anemones. Red, chlorophyll autofluorescence of the symbionts; Blue, nuclear staining using DAPI. G = gastrodermis; M = mesoglea, E = epidermis.