

**Table SIII. Concentration, incubation parameters and detection method of primary and secondary antibodies used in this study for co-immunoprecipitation and western blot and immunohistochemistry**

Primary antibody, product code and company	Primary ab raised species, isotype, concentration	Incubation details	Secondary ab, company, concentration, incubation	Detection method
Co-immunoprecipitation and western blot				
ErbB2, ab16901 [3B5]	Mouse(monoclonal), IgG fraction, 2.5µg/ml dilution	4°C overnight	Goat IgG conjugated to alkaline phosphatase, ab97048, Abcam 1:2000 dilution 1 h room temp	NBT/BCIP
ErbB2, mAb#4290 (D8F12)XP®	Rabbit (monoclonal), IgG, 1:1000 dilution	4°C overnight	Goat IgG conjugated to alkaline phosphatase, ab97048, Abcam 1:2000 dilution 1hr room temp	NBT/BCIP
ErbB3		4°C overnight	Goat IgG conjugated to alkaline phosphatase, ab97048, Abcam 1:2000 dilution 1 h room temp	NBT/BCIP
ErbB4		4°C overnight	Goat IgG conjugated to alkaline phosphatase, ab97048, Abcam 1:2000 dilution 1 h room temp	NBT/BCIP
Immunohistochemistry				
ErbB2, ab16901 [3B5]	Mouse(monoclonal), IgG fraction, 2.5µg/ml dilution	4°C overnight	Universal antibody by Novolink™ Leica Biosystems, Newcastle Ltd. 1 hour room temp	Peroxidase NovaRED™ Vector®
NRG1-1α/β1/2 (c-20): sc-348	Rabbit (polyclonal), IgG, 1:100 dilution	4°C overnight	Alexa Fluor®488 goat anti-mouse IgG (green), Life technologies, 1:250 dilution, 1hr room temp	Fluorescence 1:500 DAPI
ErbB2, ab16901 [3B5]	Mouse(monoclonal), IgG fraction, 2.5 µg/ml dilution	4°C overnight	Alexa Fluor®546 goat anti-rabbit IgG (red), Life technologies, 1:250 dilution, 1 h room temp	Fluorescence 1:500 DAPI