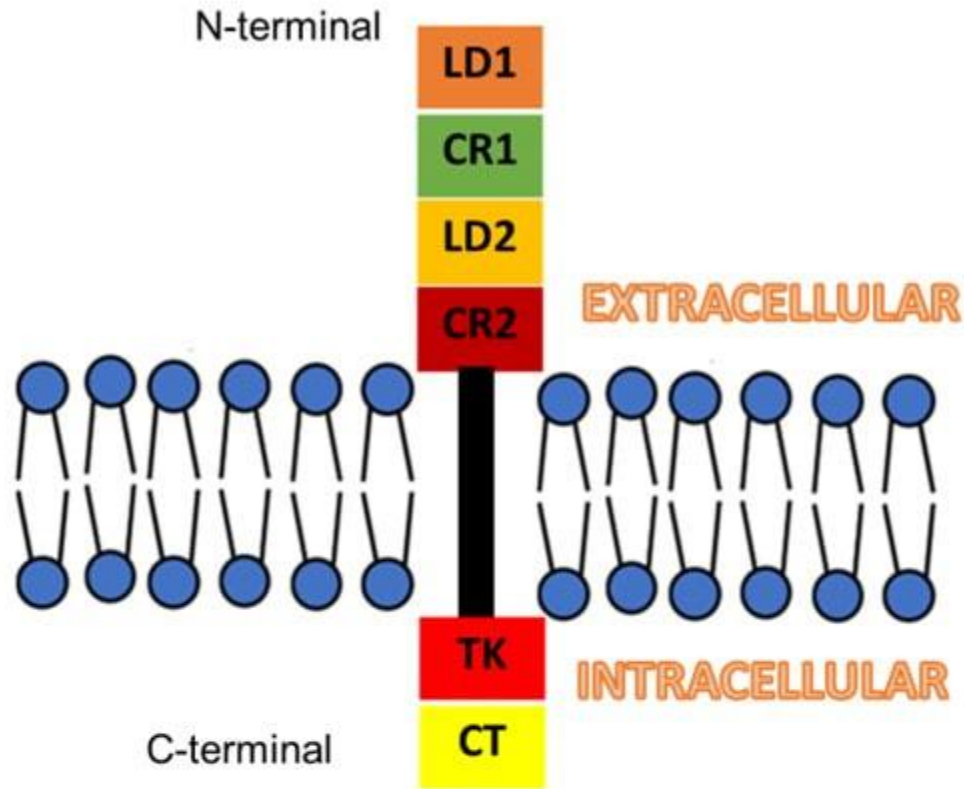


The structure of HER2 receptor and its formation of dimers



Ligand binding regions (LD)

Cysteine-rich regions (CR)

Transmembrane domain (TM)

Tyrosine kinase domain (TK)

Carboxy terminal tail (CT).

Receptor form	Type of dimer	Ligand it associates with
HER2-HER3	heterodimer	• Epiregulin (EPR) • Neuregulin (NRG1-alpha) • Neuregulin (NRG2-beta)
HER2-HER4	heterodimer	• EGF • TGF-alpha • Heparin binding epidermal growth factor • EPR • Betacellulin BTC • NRG2-alpha • NRG3