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AM20215CP-N CD340 / ERBB2 / HER2 control peptide

Alternate names: HER-2, MNL19, NEU, NEU proto-oncogene, NGL, Receptor tyrosine-protein kinase erbB-2, Tyrosine kinase-type cell surface receptor HER2, c-erbB-2, p185erbB2

Quantity: 0.1 mg

Background: ErbB2 is a member of the EGFR/erbB-receptor tyrosine kinase family. ErbB2 is activated upon ligand dependent heterodimerization with EGFR or erbB4. ErbB2 homodimers are not favored due to the lack of an erbB2 specific extracellular ligand. Heterodimerization with EGFR or erbB4 leads to activation of the intrinsic tyrosine kinase activity of EGFR or erbB4 resulting in phosphorylation of multiple tyrosine residues within the erbB2 intracellular domain: Tyr 1023, Tyr 1112, Tyr 1139, Tyr 1196, Tyr 1222, and Tyr 1248. Transphosphorylation via src family kinases leads to phosphorylation of Tyr 877, via PKC of Thr 686, via CamKinase2 of Ser 1113. Phosphorylation of Thr 686 and Ser 1113 interferes with erbB2 endocytosis and degradation.

Uniprot ID: P04626

NCBI: NP_001005862

GeneID: 2064

Format: **State:** Lyophilized phosphopeptide trifluoroacetate salt
Reconstitution: Restore with 1 ml H2O (15 min, RT).

Applications: For competition experiments start with 200 fold molar excess of the blocking peptide. e.g.: 0.2µg/ml mab and 10µg/ml peptide (MW 2000).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Control phosphopeptide for monoclonal antibody ERBB2 AM20215PU-N against phospho-ERBB2 (pTyr877) only.

Add. Information: **Peptide Sequence:**
Amino - D I D E T E pY H A D G G K V S S - amide

Storage: Lyophilized peptide can be stored below -20°C for 2 years from delivery.
Upon reconstitution, aliquote and freeze in liquid nitrogen. Reconstituted peptide can be stored frozen at -80°C up to 1 year.
Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 1 week.
Avoid repeated freeze-thaw cycles.