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Product datasheet for AM00048PU-N

Her2 (ERBB2) pThr686 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 7F8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7F8
Applications:	WB
Recommended Dilution:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. *Included Positive Control:* Cell lysate from PMA-/pervanadate-treated A431 cells (See Protocols for more details).
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH. Epitope: Phosphothreonine 686
Specificity:	This antibody specifically recognizes Human erbB2 phosphorylated at Thr686.
Formulation:	PBS / 0.09% Sodium Azide / PEG and Sucrose/50% Glycerol State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	erb-b2 receptor tyrosine kinase 2
Database Link:	Entrez Gene 2064 Human P04626

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Background: ErbB2 is a member of the EGFR/erbB-receptor tyrosine kinase family. Dysregulation of erbB2 and/or activation of downstream signaling pathways has been implicated in many human cancers. 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.

Synonyms: HER-2, NEU, p185erbB2, NGL, c-erbB-2, MNL19

Note: Protocol: **Positive Control: Cell lysate from A431 pervanadate + PMA treated**

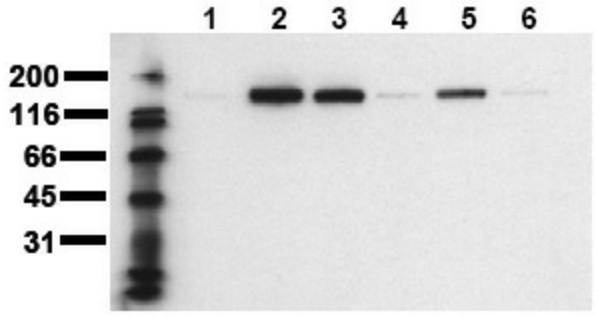
Format: Lyophilized cell lysate from A431 cells. Serum starved cells were treated for 15 min. with pervanadate plus PMA.

Reconstitution: Restore by addition of 200 µl H2O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 20.000 cells.
Use 20 µl/lane (mini gel) for HRPO/ECL detection of the target proteins.
Please NOTE: The lyophilized cell lysates conatin SDS and are not recommended for applications with native proteins such as in immunoprecipitation.

Storage: Aliquote reconstituted product and store frozen. Avoid repeated fereezing and thawing

Product images:



ERBB2 Transactivation: Serum starved A431 cells were treated for 15 min as indicated. Whole cell lysates were separated by SDS-PAGE (ca 20.000 cells/lane). The immunoblot was probed with mab erbB2-7F8 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: Control Lane 2: PMA Lane 3: LPA Lane 4: Ceramide Lane 5: Bradykinin Lane 6: Bombesin