

Product datasheet for **AM00055PU-N**

ErbB 3 (ERBB3) (Cytopl. Dom.) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 5A12]

Product data:

| | |
|------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 5A12 |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | Western Blot: 0.5 µg/ml for HRPO/ECL detection. <i>Recommended blocking buffer:</i> Casein/Tween 20. <i>Included Positive Control:</i> Cell lysate from untreated SW620 cells. (See Protocols) Immunohistochemistry on Paraffin Sections. Immunocytochemistry: (1-10 µg/ml). |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Peptide conjugated to hemocyanin (aa 1250-1270). |
| Specificity: | This antibody recognizes erbB3 phosphorylation status independent at 185 kDa in Western blot. |
| Formulation: | 1 ml PBS State: Purified State: Lyophilized purified IgG fraction. Stabilizer: PEG and Sucrose Preservative: 0.09% Sodium Azide |
| Reconstitution Method: | Restore with 1 ml H ₂ O (15 min, RT). |
| Purification: | Subsequent Ultrafiltration and Size Exclusion Chromatography. |
| Conjugation: | Unconjugated |
| Storage: | Upon receipt, store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. |



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Stability: Shelf life: one year from despatch.

Predicted Protein Size: 185 kDa

Gene Name: erb-b2 receptor tyrosine kinase 3

Database Link: [Entrez Gene 2065 Human P21860](#)

Background: ErbB3 is a member of the EGFR/erbB receptor tyrosine kinase family. ErbB3 lacks intrinsic kinase activity due to an amino acid substitution within the ATP binding site. Upon heterodimerization with the other erbB family members, erbB3 becomes phosphorylated at multiple tyrosine residues that represent docking sites for downstream signaling proteins, e.g. PI3K, grb7 and shc. The erbB3 cytoplasmic domain contains 6 docking sites for PI3K. Thus, erbB3 is a potent activator of the PI3K/PKB signaling pathway.

Synonyms: ERBB-3, c-erbB-3, HER-3

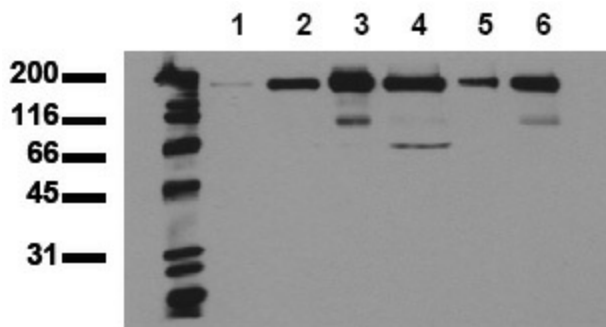
Note: Protocol: **Positive Control: Cell lysate from untreated SW620 cells**
Formulation: Lyophilized cell lysate from serum starved SW 620 cells

Reconstitution: Reconstitute 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. Aliquote and store frozen. Avoid repeated freeze/thaw cycles.

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 HRP/ECL detection of the target proteins.

Please note: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.

Product images:



Detection of endogenous erbB3: Whole cell lysates of EGF stimulated serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab erbB3-5A12 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: MDA-MB 231; lane 2: MDA-MB 468; lane 3: MCF-7; lane 4: T47D; lane 5: SW480; lane 6: SW620