

## 30-2736-PE-Cy7: Anti-Hu HER3 PE-Cy™ 7

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	H3Mab-17
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	PE/CY7
<b>Gene :</b>	ERBB3
<b>Gene ID :</b>	2065
<b>Uniprot ID :</b>	P21860
<b>Alternative Name :</b>	erb-b2 receptor tyrosine kinase 3 ERBB3, FERLK, LCCS2
<b>Isotype :</b>	Mouse IgG2a kappa
<b>Immunogen Information :</b>	HER3-transfected CHO cells

### Description

HER3 (ERBB3) is a transmembrane protein of the epidermal growth factor receptor family, although it does not have an active tyrosine kinase domain. It can bind its ligand, but for further signaling it needs heterodimerization with other receptor tyrosine kinases of EGFR family. Overexpression of HER3 has been observed in many carcinomas. Activity of HER3 can be modulated by one of its isoforms, that is secreted from the cell, as its lacks the transmembrane domain.

**Specificity :** The mouse monoclonal antibody H3Mab-17 recognizes an extracellular epitope on human HER3, a member of EGFR family of receptor tyrosine kinases, which is overexpressed in many cancers.

### Product Info

<b>Amount :</b>	100 tests (T100)
<b>Purification :</b>	Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy™ 7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

### Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

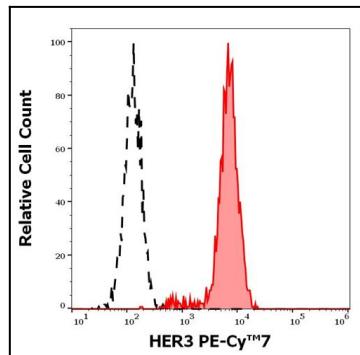


Figure 1: Separation of MCF-7 cells stained using anti-human HER3 (H3Mab-17) PE-Cy™ 7 antibody (concentration in sample 1.67 µg/ml, red-filled) from MCF-7 cells stained using mouse IgG2a isotype control (MOPC-173) PE-Cy™ 7 antibody (concentration in sample 1.67 µg/ml, same as HER3 PE-Cy™ 7 concentration, black-dashed) in flow cytometry analysis (surface staining).