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Product datasheet for DM1221

ErbB 3 (ERBB3) Mouse Monoclonal Antibody [Clone ID: DY-7G2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	DY-7G2
Applications:	ELISA, FC, WB
Recommended Dilution:	**Flow cytometry:** 1.2 µg/10e6 cells. **Cell based ELISA** with intakt, transiently transfected cells: 1/200-1/400.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Genetic immunisation with cDNA encoding Human ErbB-3
Specificity:	Recognizes Receptor Tyrosine-Protein Kinase ErbB-3.
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	erb-b2 receptor tyrosine kinase 3
Database Link:	Entrez Gene 2065 Human P21860

View online »

Background: ErbB-3 belongs to the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. ErbB receptors (EGFR (ErbB1), ErbB2, ErbB3, and ErbB4) are important regulators of normal growth and differentiation, and they are involved in the pathogenesis of cancer. The 148-kDa trans-membrane polypeptide ErbB-3 has a neuregulin binding domain but not an active kinase domain. Heterodimerisation with EGF receptor family members which possess kinase activity leads to the activation of pathways which indicate cell proliferation or differentiation (1). Over-expression of ErbB-3 has been reported in numerous cancers, including prostate, bladder and breast tumours (2).

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

Protein Families: Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane

Protein Pathways: Calcium signaling pathway, Endocytosis, ErbB signaling pathway

Product images:

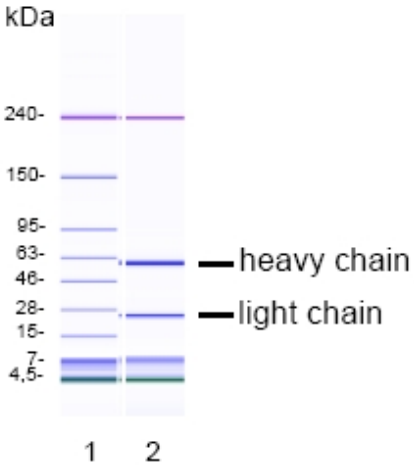

Figure 2. SDS-PAGE analysis of purified DY-7G2 antibody. Lane 1: Molecular weight marker, Lane 2: 2ug of purified DY-7G2 antibody. Proteins were separated by CGE (Capillary Gel Electrophoresis, Agilent 2100 Bioanalyzer). Internal Control bands (240 kDa / 7 kDa / 4.5 kDa).

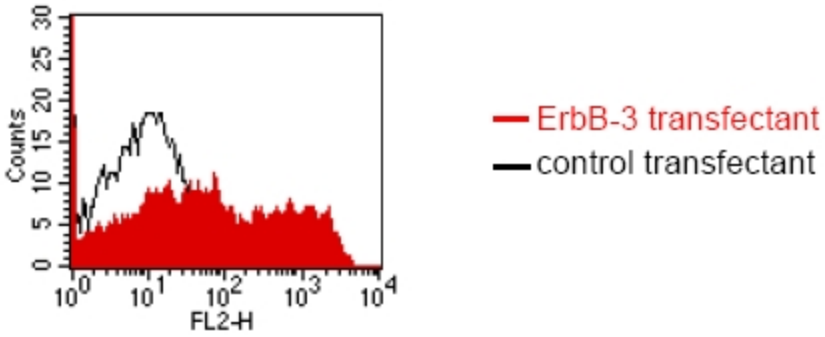

Figure.1. FACS analysis of BOSC23 cells using DY-7G2. BOSC23 cells were transiently transfected with an expres-sion vector encoding either ErbB-3 (Red curve) or an irrelevant protein (control transfectant: black curve). Binding of DY-7G2 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with ErbB-3 transfected cells.