BioVision

rev 05/18

For research use only

Human CellExp™ HER3 / ErbB3 Extracellular Domain (ED), Human Recombinant

CATALOG NO:	7400-10	10 µg
	7400-50	50 µg
	7400-250	250 µg
	7400-1000	1 mg

ALTERNATE NAMES: Receptor tyrosine-protein kinase erbB-3, ERBB3, HER3, LCCS2, MDABF1, MGC88033, cerbB3, erbB3S, p180ErbB3, p45sErbB3

SOURCE: HEK 293 cells (Ser 20 – Thr 643)

PURITY: > 95% by SDS-PAGE

MOL. WEIGHT: This protein is fused with polyhistidine tag at the C-terminus and has a calculated MW of ~70 kDa (20 – 643 aa, UniProtKB - P21860). Under reducing conditions the protein migrates to ~93 kDa in SDS-PAGE due to glycosylation.

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered PBS (pH 7.4) with 5% trehalose

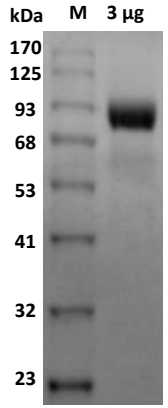
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -80°C. Avoid repeated freeze-thaw cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4.

DESCRIPTION: ErbB3, also called human epidermal growth factor receptor 3 (HER3), is a type I membrane glycoprotein and a member of the ErbB family. ErbB family members serve as receptors for the epidermal growth factors (EGF). ErbB3 is expressed in normal adult human gastrointestinal tract, reproductive system, skin, nervous system, urinary tract, and endocrine system. ErbB3 is the only member with a defective kinase domain among ErbB family members. However, ErbB3 can form heterodimers with ErbB2 to complement a high affinity receptor complex. ErbB3 has been shown to bind the ligands heregulin and NRG-2. The lethal congenital contracture syndrome 2 (LCCS2) disease is caused by mutations affecting ErbB3. ErbB3 null mouse embryos show severely underdeveloped atrioventricular valves, which leads to death at embryonic day 13.5.

BIOLOGICAL ACTIVITY: HER3-biotin can bind immmobilized Human Her2 (Cat. No. P1160) at 5 µg/ml (100 µl/well)) with a linear range of 0.05 - 5 µg/ml.

A.



B.

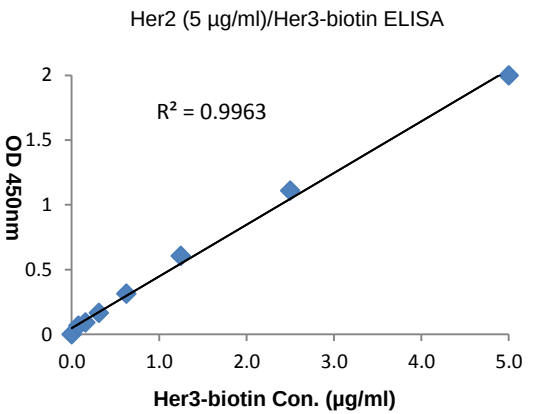


Fig A. SDS-PAGE (4-20%) of Recombinant Her3 (ED): Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. The protein shows a MW of ~ 93 kDa

Fig B. Biological activity: Immobilized Human Her2 (Cat. No. P1160) at 5 µg/ml (100 µl/well) can bind biotinlyated HER3 (Cat. No. 7400) with a linear range of 0.05-5 ug/ml

RELATED PRODUCT:

- Human CellExp™ HER1/ErbB1, human recombinant **(Cat. No. 7396-10)**
- Human CellExp™ HER2/ErbB2, human recombinant **(Cat. No. 7397-10, -50)**
- EGF Receptor, human recombinant **(Cat. No. 7135-10, -50)**
- ErbB4/HER4 (His Tagged), Human Recombinant **(Cat. No. 7773-5)**
- HER2, Active **(Cat. No. 7762-5, -100)**
- HER2/ErbB2 Antibody **(Cat. No. 3783-100)**
- Anti-HER2 (Trastuzumab), humanized Antibody **(Cat. No. A1046)**

FOR RESEARCH USE ONLY! Not to be used on humans.

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