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Product Datasheet

Recombinant Human HER2 (C-6His) EBT-EPT219

Article Name	Recombinant Human HER2 (C-6His)
Biozol Catalog Number	EBT-EPT219
Supplier Catalog Number	EPT219
Alternative Catalog Number	EBT-EPT219-10
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Human Receptor Tyrosine-protein Kinase ErbB-2 is produced by our Mammalian expression system and the target gene encoding Thr23-Thr652 is expressed with a 6His tag at the C-terminus....
Molecular Weight	Molecular weight: 70.2 KDa. Apparent molecular weight: 90-120 KDa, reducing conditions
UniProt	P04626
Purity	Greater than 90% as determined by reducing SDS-PAGE.

Application Notes	Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. Biological activity: Immobilized Human HER2-His(CatCP69) at 2µg/ml (100 µl/well) can bind Anti-Human HER2 mAb(CatNC009). The ED50 of Anti-Human HER2 mAb(CatNC009) is 89.54 ng/ml. Background: Human epidermal growth factor receptor 2 (HER2) is a type of membrane glycoprotein, and belongs to the epidermal growth factor (EGF) receptor family. HER2 plays a key role in development, cell proliferation and differentiation. HER2 has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on. HER2 is activated by dimerization and not activated by EGF, TGF-alpha and amphiregulin. Interaction with PTK6 increases its intrinsic kinase activity. It is heterodimer with EGFR, ERBB3 and ERBB4. HER2 associates with the 5-TCAAATTC-3 sequence in the PTGS2/COX-2 promoter and activates its transcription. It implicated in transcriptional activation of CDKN1A and the function of the protein involves STAT3 and SRC. And also it involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth
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