

## Recombinant Human HER2 (C-6His)

Catalog #	EPT219

**Expression Host** Human Cells

- **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.
- Accession P04626
- Synonyms Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; Proto-oncogene Neu;Tyrosine kinase-type cell surface receptor HER2; ERBB2; MLN19; NGL; TKR1
- Mol Mass 70.2 KDa

AP Mol Mass 90-120 KDa, reducing conditions

 Purity
 Greater than 90% as determined by reducing

 SDS-PAGE.

**Endotoxin** Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.



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FORMULATION	Lyophilized from a 0.2 µm filtered solution of PBS, pH
	7.4.
RECONSTITUTION	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.
SHIPPING	The product is shipped at ambient temperature.
	Upon receipt, store it immediately at the temperature
	listed below.
STORAGE	Lyophilized protein should be stored at < -20 $^{\circ}$ C,
	though stable at room temperature for 3 weeks.
	Reconstituted protein solution can be stored at 4-7°C
	for 2-7 days.
	Aliquots of reconstituted samples are stable at $< -20^{\circ}$
	C for 3 months.
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



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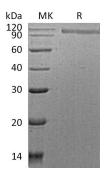
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differentiation. HER2 has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on. HER2 is activated by dimerization and not activated by EGF, TGF-alpha and 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.



## **SDS-PAGE**



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