

Rev05
 Update: Aug,20,2025

DATASHEET

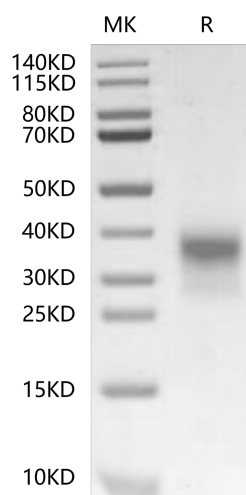
Her2/ErbB2 Domain 4[Biotin], His & Avi, Human

Cat. No.: Z03902

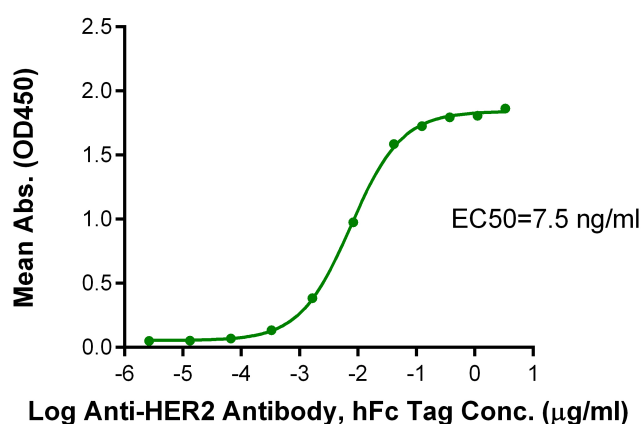
Product Introduction

Species	Human
Protein Construction	Her2/ErbB2 Domain 4 (Pro489-Cys630) Accession # P04626-1 His Avi N-term C-term
Conjugate	Biotin
Purity	> 95% as determined by Bis-Tris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	18.5 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 28-40 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from a 0.22 µm filtered solution in PBS, pH 7.4.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O more than 100 µg/ml.
Storage & Stability	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

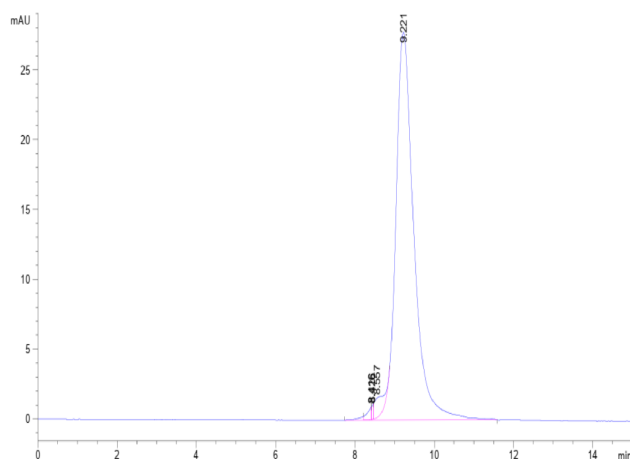
Examples



Her2/ErbB2 Domain 4[Biotin], His & Avi, Human on Bis-Tris
PAGE under reduced condition. The purity is greater than 95%.



Immobilized Her2/ErbB2 Domain 4[Biotin], His & Avi, Human at 1 µg/ml (100 µl/well) on the streptavidin precoated plate(5 µg/ml). Dose response curve for Anti-HER2 Antibody, hFc Tag with the EC50 of 7.5 ng/ml determined by ELISA.



The purity of Her2/ErbB2 Domain 4[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : ErbB2, also called Neu and Her2 (human epidermal growth factor receptor 2), is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. ErbB family members serve as receptors for the epidermal growth factor (EGF) family of growth factors. Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane.

Synonyms : CD340; EGFR2; ErbB2; HER2; HER-2; herstatin; MLN 19; MLN19; NGL; TKR1; ERBB2; NEU; ENV; ENVW; ERVWE1; HERV7Q; HERVW

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China