

**Anti-ERBB3 / HER3 Reference Antibody (patritumab)  
Recombinant Antibody  
Catalog # APR10047****Specification**

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**Anti-ERBB3 / HER3 Reference Antibody (patritumab) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | FC, E, FTA             |
| Primary Accession | <a href="#">P21860</a> |
| Reactivity        | Rat, Human             |
| Clonality         | Monoclonal             |
| Isotype           | IgG1                   |
| Calculated MW     | 146.86 KDa             |

**Anti-ERBB3 / HER3 Reference Antibody (patritumab) - Additional Information****Target/Specificity**  
ERBB3 / HER3**Endotoxin**  
< 0.001EU/ µg,determined by LAL method.**Conjugation**  
Unconjugated**Expression system**  
CHO Cell**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.**Anti-ERBB3 / HER3 Reference Antibody (patritumab) - Protein Information****Name** ERBB3**Synonyms** HER3**Function**  
Tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed:<a href="http://www.uniprot.org/citations/20682778" target="\_blank">20682778</a>). May also be activated by CSPG5 (PubMed:<a href="http://www.uniprot.org/citations/15358134" target="\_blank">15358134</a>). Involved in the regulation of myeloid cell differentiation (PubMed:<a href="http://www.uniprot.org/citations/27416908" target="\_blank">27416908</a>).**Cellular Location**  
[Isoform 1]: Cell membrane; Single-pass type I membrane protein

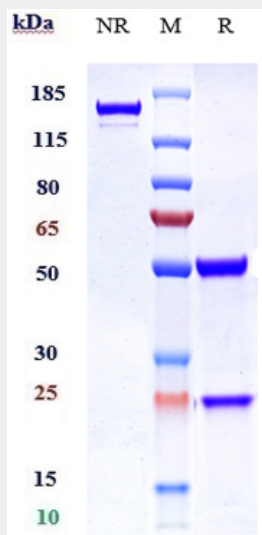
**Tissue Location**

Epithelial tissues and brain.

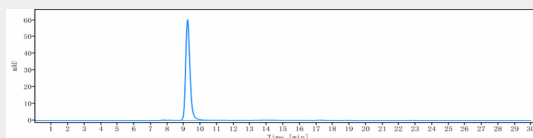
**Anti-ERBB3 / HER3 Reference Antibody (patritumab) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

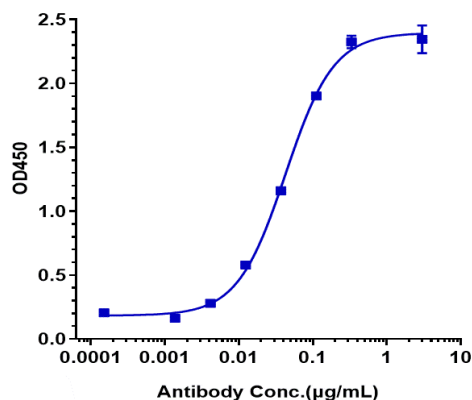
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

**Anti-ERBB3 / HER3 Reference Antibody (patritumab) - Images**

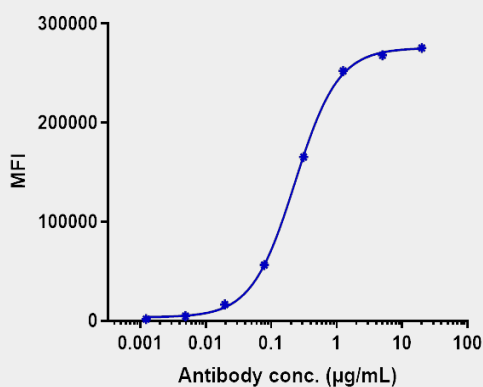
Anti-ERBB3 / HER3 Reference Antibody (patritumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-ERBB3 / HER3 Reference Antibody (patritumab) is more than 99.19%, determined by SEC-HPLC.



Immobilized human HER3 His at 2 µg/mL can bind Anti-ERBB3 / HER3 Reference Antibody (patritumab)  $EC_{50}=0.04264$  µg/mL



Human HER3 HEK293 cells were stained with Anti-ERBB3 / HER3 Reference Antibody (patritumab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS,  $EC_{99}=0.2297$  µg/mL