

## EPhA2 Protein, Cynomolgus, Recombinant (His & Avi)

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | EPHA2;EC:2.7.10.1;Ephrin type-A receptor 2   |
| Protein Construction: | Ala24-Ser534   |
| Species:              | Cynomolgus   |
| Expression Host:      | HEK293 Cells   |
| Accession:            | Q1KL86   |
| Molecular Weight:     | 59.2 kDa (predicted). Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result. |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity:              | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC   |
| Endotoxin:           | < 1.0 EU/µg of the protein as determined by the LAL method.   |
| Formulation:         | Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.          |

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Ephrin type-A receptor 2 (EPHA2) is a receptor tyrosine kinase (RTK), whose over-expression has been observed in a variety of cancers, including breast cancer. EPHA2 expression may be causally related to tumorigenesis; therefore, it is important to understand how EPHA2 gene (EPHA2) expression is regulated.

Reference

Okuyama T, et al. EPHA2 antisense RNA modulates EPHA2 mRNA levels in basal-like/triple-negative breast cancer cells. Biochimie. 2020 Dec;179:169-180. doi: 10.1016/j.biochi.2020.10.002. Epub 2020 Oct 3. PMID: 33022313.

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