Product Data:

Product SKU: RPES2568

Species: Rat

Uniprot: P06494

Size: 10µg

Expression host: E. coli

Protein Information:

Molecular Mass:	29.3 kDa
AP Molecular Mass:	32 kDa
Tag:	C-6His
Bio-activity:	
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per µg as determined by LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl, 4M Urea, pH 8.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Receptor tyrosine-protein kinase erbB-2; Epidermal growth factor receptor-related protein; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; p185erbB2; p185neu; CD340; ERBB2;ENV;ENVW;ERVWE1;HER-2;HER-2/neu;HER2;HERV-7q;HERV-W-ENV;HERV7Q;HERVW;HERVENV;MLN 19;MLN19

Background:

ERBB2 belongs to the protein kinase superfamily, Tyr protein kinase family and EGF receptor subfamily. It contains a protein kinase domain. ERBB2 is widely expressed in epithelial cells, and amplification and/or overexpression of ErbB2 has been reported associated with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate and ovarian cancers. Rat ERBB2 is an essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. ErbB2 mediates signalling pathways which involve mitogen-activated protein kinase and phosphatidylinositol-3 kinase, this receptor plays a key role in development, cell proliferation and differentiation.