

Recombinant Human Bone morphogenetic protein receptor type-1A(BMPR1A),partial

Catalog No: #AP70087

Package Size: #AP70087-1 20ug #AP70087-2 100ug #AP70087-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human Bone morphogenetic protein receptor type-1A(BMPR1A),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:177-532aaSequence Info:Cytoplasmic Domain
Other Names	Activin receptor-like kinase 3 ;ALK-3Serine,threonine-protein kinase receptor R5 ;SKR5; CD292
Accession No.	P36894
Calculated MW	56.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	KHYCKSISSRRRYNRDLEQDEAFIPVGESLKDLDQSQSSGSGSGLPLLVRTIAKQIQMVRQVGKGRYGEVW MGKWRGEKVAVKVFFFTTEEASWFRETEIYQTVLMRHNILGFIAADIKGTGSWTQLYLITDYHENGSLYDFLKC ATLDRALLKLAYSACGLCHLHTEIYGTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPL NTRVGTKRYMAPEVLDES LNKNHFQPYIMADIYSFGLIIEWEMARRCITGGIVEEYQLPYYNMVPSPDSYEDMR EVVCVKRLRPVSNRWNSDECLRAVLKLMSECVAHNPASRLTALRIKKTAKMVESQDVKI
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine,threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for BMP-2 and BMP-4. Positively regulates chondrocyte differentiation through GDF5 interaction .

References

Patterns of somatic mutation in human cancer genomes.Greenman C., Stephens P., Smith R., Dalgleish G.L., Hunter C., Bignell G., Davies H., Teague J., Butler A., Stevens C., Edkins S., O'Meara S., Vastrik I., Schmidt E.E., Avis T., Barthorpe S., Bhamra G., Buck G. , Choudhury B., Clements J., Cole J., Dicks E., Forbes S., Gray K., Halliday K., Harrison R., Hills K., Hinton J., Jenkinson A., Jones D., Menzies A., Mironenko T., Perry J., Raine K., Richardson D., Shepherd R., Small A., Tofts C., Varian J., Webb T., West S., Widaa S., Yates A., Cahill D.P., Louis D.N., Goldstraw P., Nicholson A.G., Brasseur F., Looijenga L., Weber B.L., Chiew Y.-E., DeFazio A., Greaves M.F., Green A.R., Campbell P., Birney E., Easton D.F., Chenevix-Trench G., Tan M.-H., Khoo S.K., Teh B.T., Yuen S.T., Leung S.Y., Wooster R., Futreal P.A., Stratton M.R.Nature 446:153-158(2007) Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.