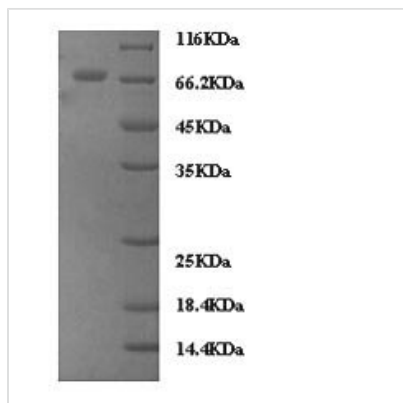




Recombinant Human Zyxin (ZYX)

Product Code	CSB-MP027165HU
Relevance	Adhesion plaque protein. Binds alpha-actinin and the CRP protein. Important for targeting TES and ENA/VASP family members to focal adhesions and for the formation of actin-rich structures. May be a component of a signal transduction pathway that mediates adhesion-stimulated changes in gene expression
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.
Uniprot No.	Q15942
Alias	Zyxin-2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AAPRPSPAISVSVSAPAFYAPQKKFGPVVAPKPKVNPFRPGDSEPPPPAPGAQ RAQMGRVGEIPPPPPEDFPLPPPPLAGDGDDAEGALGGAFPPPPPPPIEESFPP APLEEEIFSPPPPPEEEGGPEAPIPPPPQPREKVSSIDLEIDSLSSLLDDMTKN DPFKARVSSGYVPPPVATPFSSKSSTKPAAGGTAPLPPWKSPSSSQPLPQVP APAQSQTFHVQPQPQPKPQVQLHVQSQTQPVSLANTQPRGPPASSPAPAP KFSPVTPKFTPVASKFSPGAPGGSGSQPNQKLGHPEALSAGTGSPQPPSFTY AQQREKPRVQEKQHPVPPPAQNQNQVRSPPGAPGLTLKEVEELEQLTQQLM QDMEHPQRQNVAVNELCGRCHQPLARAQPAVRALGQLFHACFTCHQCAQQ LQGQQFYSLLEGAPYCEGCYTDLTLEKNTCGEPITDRMLRATGKAYHPHCFTC VVCARPLEGTSFIVDQANRPHCVDPYHKQYAPRCSVCSEPIMPEPGRDETVR VVALDKNFHMCKYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHTARAQT
Lead Time	3-7 business days
Research Area	Epigenetics and Nuclear Signaling
Source	Mammalian cell
Gene Names	ZYX
Expression Region	2-572aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	65.1kDa
Protein Description	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant human Zyxin/ZYX was generated by the expression of a DNA fragment encoding 2-572AA of human ZYX in the mammalian cell. The partial-length protein carries an N-terminal 6xHis tag. It reached up to 90% in purity measured by SDS-PAGE. Under reducing conditions, a molecular weight band of about 68 kDa was presented on the gel. This protein is in-stock so that there is no waiting period for protein preparation. In addition to producing specific antibodies, this recombinant ZYX protein may be used in the studies of epigenetics and nuclear signaling.

Zyxin/ZYX is a member of the focal adhesion complex and controls cell cytoskeleton and motility. It is also involved in sensing the mechanotransduction signal. Several studies have shown that ZYX positively regulates Yki/YAP signaling. Jiuli Zhou etc. demonstrated that ZYX promotes colon cancer tumorigenesis in a mitotic-phosphorylation-dependent manner and through CDK8-mediated YAP activation. This may provide a potential cancer therapy by targeting the Zyxin-CDK8-YAP axis.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.