

## Product datasheet for PH305727

### Kindlin 2 (FERMT2) (NM\_006832) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | FERMT2 MS Standard C13 and N15-labeled recombinant protein (NP_006823) |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC205727   |
| Predicted MW:                         | 77.9 kDa   |
| Protein Sequence:                     | >RC205727 protein sequence<br>Red=Cloning site Green=Tags(s)           |

MALDGI RMPDGCYADGTWELSVHVTDLNRDVTLRVTGEVHIGGVMLKLVEKLDVKKDWSHDALWWEKKRT  
WLLKTHWTLDKYGIQADAKLQFTPQHKLRLQLPNMKYVKVKNFSDRVFKAVSDICKTFNIRHPEELSL  
LKKPRDPTKKKKKLDDQSEDEALELEGPLITPGSGSIYSSPGLYSKTMPTPYDAHDGSPLSPTSAWFGD  
SALSEGNGILAVSQPITSPEILAKMFKPQALLDKAKINQGWLDSSRSLMEQDVKENEALLRFKYYSFF  
DLNPKYDAIRINQLYEQAKWAILLEEIECTEEMMMFAALQYHINKLSIMTSENHLNNSDKEVDEVDAAL  
SDLEITLEGGKTSTILGDITSPELADYIKVFKPKKLTLYGKYQYWCTFKDTSISCYKSKEESSGTPAHQ  
MNLRGCEVTPDVNISGQKFNIKLLIPVAEGMNEIWLRCNDEKQYAHWMAACRLASKGKTMADSSYNLEVQ  
NILSFLKMQHLPDPQLIPEQITTDITPECLVSPRYLKKYKNKQITARILEAHQNVAAQMSLIEAKMRFIQ  
AWQSLPEFGITHFIARFQGGKKEELIGIAYNRLIRMDASTGDAIKTWRF SNMKQWNVNWEIKMVTVEFAD  
EVRLSFICTEVDCKVVEHFIGGYIFLSTRAKDQNESLDEEMFYKLTSGWV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine                       |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq:          | <u><a href="#">NP_006823</a></u>   |
| RefSeq Size:     | 3351   |

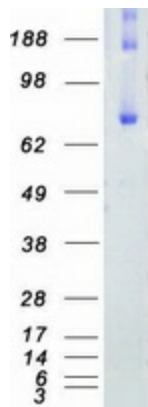


[View online »](#)

|               |   |
|---------------|---|
| RefSeq ORF:   | 2040  |
| Synonyms:     | KIND2; mig-2; MIG2; PLEKHC1; UNC112; UNC112B        |
| Locus ID:     | 10979   |
| UniProt ID:   | <a href="#">Q96AC1</a> , <a href="#">A0A024R687</a> |
| Cytogenetics: | 14q22.1   |

**Summary:** Scaffolding protein that enhances integrin activation mediated by TLN1 and/or TLN2, but activates integrins only weakly by itself. Binds to membranes enriched in phosphoinositides. Enhances integrin-mediated cell adhesion onto the extracellular matrix and cell spreading; this requires both its ability to interact with integrins and with phospholipid membranes. Required for the assembly of focal adhesions. Participates in the connection between extracellular matrix adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits FBLIM1 to focal adhesions. Plays a role in the TGF $\beta$ 1 and integrin signaling pathways. Stabilizes active CTNNA1 and plays a role in the regulation of transcription mediated by CTNNA1 and TCF7L2/TCF4 and in Wnt signaling. [UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified FERMT2 protein (Cat# [TP305727]). The protein was produced from HEK293T cells transfected with FERMT2 cDNA clone (Cat# [RC205727]) using MegaTran 2.0 (Cat# [TT210002]).