

## Product datasheet for PH305380

### Rb2 p130 (RBL2) (NM\_005611) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RBL2 MS Standard C13 and N15-labeled recombinant protein (NP_005602)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205380
Predicted MW:	128.3 kDa
Protein Sequence:	>RC205380 protein sequence Red=Cloning site Green=Tags(s)

MPSGGDQSPPPPPPPAAAAAASDEEEEDDGEAEDAAPPAESPTPQIQRFDELCSRLNMDEAARAEAWDSY  
RSMSESYTLEGNDLHWLACALYVACRKSVPVSKGTVEGNYVSLTRILKCSEQSLIEFFNMKKWEDMAN  
LPPHFRETERLERNFTVSAVIFKKYEPYIFQDIFKYPQEEQPRQQRGRKQRRQPCTVSEIFHFCWVLFYI  
AKGNFPMISDDL VNSYHLLL CALDLVYGNALQCSNRKELVNPVFKGLSEDFHAKDSKPSDDPPCIEKLC  
SLHDGLVLEAKGIKEHFWKPYIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEYVLSVGNLDE  
RIFLGEDAEEEIGTL SRCLNAGSGTETAERVQMKNILQQHFDKSKALRISTPLTGVRYIKENSPCVTPVS  
TATHSL SRLHTMLTGLRNAPSEKLEQILRTCSRDPQTQAIANRLKEMFEIYSQHFQPEDDFSNCAKEIASK  
HFRFAEMLYYKVLSEVIEQEQKRLGDMDSLGIQDAFHRSLLACCLEVVTFSYKPPGNFPFITEIFDVP  
LYHFYKVIIEVFIRAEDGLCREVVKHLNQIEEQILDHLAWKPESPLWEKIRDNENRVTCEEVMPQNLER  
ADEICIAAGSPLTPRRVTEVRADTGGGLGRSITSPPTLYDRYSSPPASTTRRRLFVENDSPSDGGTGRMP  
QPLVNAVVPQNVSGETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGIANENGGITFFPVQVNVGGQA  
QAVTGSIQPLSAQALAGSLSSQQTGTTLQVPGQVAIQQISPGGQQKQGGQSVTSSSNRPRKTSLSLFF  
RKVYHLAAVRLRDLCAKLDISDEL RKKIWTCFEF SIIQCELMMDRHL DQLLMCAIYVMKVTKEDKSFQ  
NIMRCYRTQPQARSQVYRSVLKIGKRKRNRSGSSDRSHQNSPTEL NKDRTSRDSSPVMRSSTLPVPQP  
SSAPPTPTRLTGANS DMEEEEERGDLIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYPFVRTGSPRRIQL  
SQNHVYI SPHKNETMLSPREKIFYYFSNSPSKRLREINSMIHTGETPTKKGILLEDGSESPAKRICPE  
NHSALLRRLQDVANDRGSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

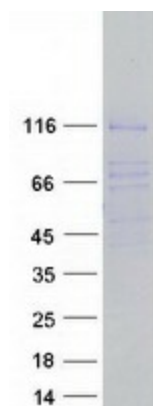
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_005602</a>
<b>RefSeq Size:</b>	4903
<b>RefSeq ORF:</b>	3417
<b>Synonyms:</b>	P130; Rb2
<b>Locus ID:</b>	5934
<b>UniProt ID:</b>	<a href="#">Q08999</a>
<b>Cytogenetics:</b>	16q12.2
<b>Summary:</b>	Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor.[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Cell cycle, TGF-beta signaling pathway

### Product images:



Coomassie blue staining of purified RBL2 protein (Cat# [TP305380]). The protein was produced from HEK293T cells transfected with RBL2 cDNA clone (Cat# [RC205380]) using MegaTran 2.0 (Cat# [TT210002]).