

## Product datasheet for PH305453

### HORMAD2 (NM\_152510) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HORMAD2 MS Standard C13 and N15-labeled recombinant protein (NP_689723)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205453
Predicted MW:	35.3 kDa
Protein Sequence:	<p>&gt;RC205453 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MATAQLSHCITIHKASKETVFPQSITNEHESLKMVKKLFATSISCITYLRGLFPESYGERHDDLCLKI            LREDKKCPGSLHIIRWIQGCDALEKRYLRMAVLTLYTDPMGSEKVTEMYQFKFKYTKEGATMDFDSSHSS            STSFESGTNNEDIKKASVLLIRKLYILMQDLEPLPNNVLTMLHYNAVTPHDYQPLGFKEGVNSHFL            FDKEPINVQVGFVSTGFHSMKVKVMTEATKVIDLENNLFRENSTTEIAHQGLDCDEEEECNDHIQRMNFV            CSQSSSECSRKKRKVSEPVKVFIPNRK</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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
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_689723</a></u>
RefSeq Size:	1909
RefSeq ORF:	921
Synonyms:	CT46.2
Locus ID:	150280

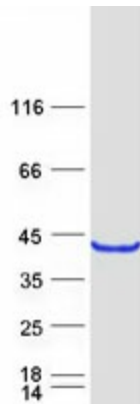

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UniProt ID: [Q8N7B1](#)

Cytogenetics: 22q12.2

**Summary:** Essential for synapsis surveillance during meiotic prophase via the recruitment of ATR activity. Plays a key role in the male mid-pachytene checkpoint and the female meiotic prophase checkpoint: required for efficient build-up of ATR activity on unsynapsed chromosome regions, a process believed to form the basis of meiotic silencing of unsynapsed chromatin (MSUC) and meiotic prophase quality control in both sexes. Required for the DNA double-strand break-independent, BRCA1-dependent activation of ATR on the sex chromosomes that is essential for normal sex body formation (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified HORMAD2 protein (Cat# [TP305453]). The protein was produced from HEK293T cells transfected with HORMAD2 cDNA clone (Cat# [RC205453]) using MegaTran 2.0 (Cat# [TT210002]).