

Product datasheet for PH310364

PD1 (PDCD1) (NM_005018) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | PD-1 / PDCD1 MS Standard C13 and N15-labeled recombinant protein (NP_005009) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC210364 |
| Predicted MW: | 31.6 kDa |
| Protein Sequence: | >RC210364 protein sequence Red=Cloning site Green=Tags(s) MQIPQAPWPVVWAVLQLGWRPGWFLDSPDRPWNPTFSPALLVVTEGDNATFTCSFSNTSESVFLNWYRM SPSNQTDKLAAPFEDRSQPGQDCRFVTLQPNGRDFHMSVVRARRNDSGTYLCGAISLAPKAQIKESLRA ELRVTERRAEVPTAHPSPSRPAGQFQTLVVGVVGGLLGSLLVWVLAVICRAARGTIGARRTGQPLK EDPSAVPVFVSDYGELDFQWREKTPEPPVPCVPEQTEYATIVFPSSGMGTSSPARRGSADGPRSAQPLRPE DGHCSWPL 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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>NP_005009</u> |
| RefSeq Size: | 2115 |
| RefSeq ORF: | 864 |
| Synonyms: | CD279; hPD-1; hPD-I; hSLE1; PD-1; PD1; SLEB2 |
| Locus ID: | 5133 |



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UniProt ID: [Q15116](#), [A0A0M3M0G7](#)

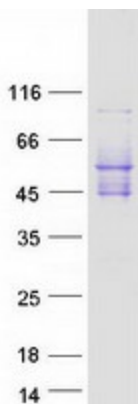
Cytogenetics: 2q37.3

Summary: Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified PDCD1 protein (Cat# [TP310364]). The protein was produced from HEK293T cells transfected with PDCD1 cDNA clone (Cat# [RC210364]) using MegaTran 2.0 (Cat# [TT210002]).