

Product datasheet for TP522132

Birc2 (NM_007465) Mouse Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse baculoviral IAP repeat-containing 2 (Birc2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species: | Mouse |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >MR222132 representing NM_007465 Red=Cloning site Green=Tags(s) |

MDKTVSQRLGQGTTLHQKLKRIMEKSTILSNWTKESSEKMKFDFSCELYRMSTYSAFPGRGVPVRSERLARA
GFYYTGVNDKVKCFCCGLMLDNWKQGDSPVEKHRQFYPCSFVQTLSSASLQSPSKNMSPVKSRFAHSSP
LERGGIHSNLCSSPLNSRAVEDFSSRMDPCSYAMSTEEARFLTYSMWPLSFLSPAELARAGFYIYGPDR
VACFACGGKLSNWEPKDDAMSEHRRHFPHPFLENTSETQRFSSISNLSMQTHSARLRTFLYWPSPVPVQP
EQLASAGFYVDRNDDVKCFCCDGLRCWEPGDDPWIEHAKWFPRCEFLIRMKGQEFVDEIQARYPHLLE
QLLSTSDTPGEENADPTETVVFHFGPGESEEDVMMSTPVVKAALEMGFSRSLVRQTVQRQILATGENYRT
VNDIVSVLLNAEDERREEEKERQTEEMASGDLSLIRKNRMALFQQLTHVLPILDNLLEASVITKQEHDI
RQKTQIPLQARELIDTVLVKGNAAANIFKNSLKEIDSTLYENLFVEKNMKYIPTEDVSGLSLEEQLRRLQ
EERTCKVCM DREVSIVFIPCGHLVVCQECAPSLRKPCICRGTIKGTVRTFLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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| Tag: | C-MYC/DDK |
| Predicted MW: | 70.1 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C after receiving vials. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |



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| RefSeq: | NP_031491 |
| Locus ID: | 11797 |
| UniProt ID: | Q62210 |
| RefSeq Size: | 3155 |
| Cytogenetics: | 9 A1 |
| RefSeq ORF: | 1836 |
| Synonyms: | Api1; Api2; AW146227; Birc3; C-IAP1; C330006D17Rik; cIAP1; cIAP2; HIAP1; HIAP2; IAP1; IAP2 |
| Summary: | <p>Multi-functional protein which regulates not only caspases and apoptosis, but also modulates inflammatory signaling and immunity, mitogenic kinase signaling, and cell proliferation, as well as cell invasion and metastasis. Acts as an E3 ubiquitin-protein ligase regulating NF-kappa-B signaling and regulates both canonical and non-canonical NF-kappa-B signaling by acting in opposite directions: acts as a positive regulator of the canonical pathway and suppresses constitutive activation of non-canonical NF-kappa-B signaling. The target proteins for its E3 ubiquitin-protein ligase activity include: RIPK1, RIPK2, RIPK3, RIPK4, CASP3, CASP7, CASP8, TRAF2, DIABLO/SMAC, MAP3K14/NIK, MAP3K5/ASK1, IKBKG/NEMO, IKBKE and MXD1/MAD1. Can also function as an E3 ubiquitin-protein ligase of the NEDD8 conjugation pathway, targeting effector caspases for neddylation and inactivation. Acts as an important regulator of innate immune signaling via regulation of Toll-like receptors (TLRs), Nodlike receptors (NLRs) and RIG-I like receptors (RLRs), collectively referred to as pattern recognition receptors (PRRs). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein complex that has the capability to kill cancer cells in a caspase-dependent and caspase-independent manner. Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8. Can stimulate the transcriptional activity of E2F1. Plays a role in the modulation of the cell cycle.[UniProtKB/Swiss-Prot Function]</p> |