



## Product Datasheet

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Cat No: Pr00106

Multi-Tag Control Protein

## Product Summary

**Description:** Multi-Tag control protein is a genetically engineered synthetic fusion protein consisting of 17 commonly used [epitope-tags](#) fused together using flexible linkers. The multi-Tag synthetic protein can be used as a positive control in western and dot blots.

**Host:** HEK293

**Molecular Weight:** 58kDa

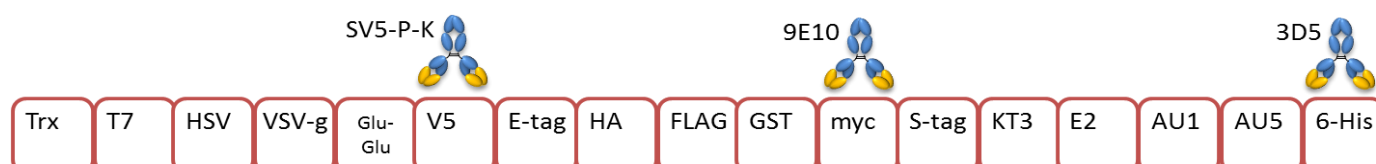
**Format:** Purified (aq)

**Alternative Name(s):** Multi-tag protein; Multiple-Epitope Tag protein; Multi Tag full length protein

**Application(s):** WB

**Construct:** Epitope-tags shown in order, from N- to C-termini, in the table and schematic diagram below.

Tag	Sequence
Thioredoxin (Trx)	SDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIAPILDEIADEYQGKLTVAKLNIDQNPGTAPKYGIRGIPTLLLFK NGEVAATKVGALSKGQLKEFLDANLA
T7	CMASMTGGQQMG
HSV	QPELAPEDPEDC
VSV-g	YTDIEMNRLGKG
Glu-Glu	CEEEYMPME
V5	GKPIPPLLGLDST
E-tag	GAPVPYPDPLEPR
HA	YPYDVPDYAC
FLAG	DYKDDDDK
GST	PILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIRYIADKHNMGLGG CPKERAISMLEGAVLDIRYGVSRVRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVLVLY MDPMCLDAFPKLVCFKKRIEAIPOIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLV
myc	EQKLISEEDLC
S-tag	KETAAAKFERQHMS
KT3	KPPTPPPEPET
E2	GVSTSSDFRDR
AU1	DTYRYI
AU5	TDFYLK
His	HHHHHH



## Product Form

**Purification:** IMAC

**Supplied in:** PBS (pH 7.4)

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer term storage aliquot into small volumes and store at -20°C

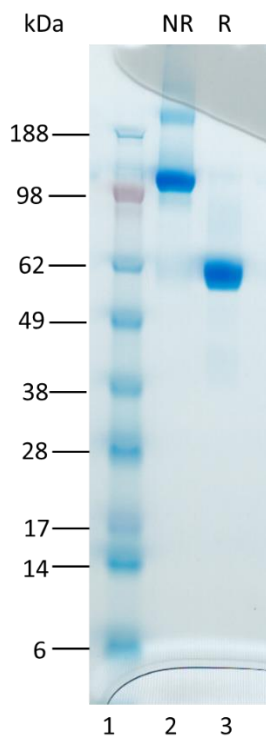
**Lot number:** on vial

**Vial Concentration:** 1 µg/µl

**Unit Amount:** 200 µg

**Purity:** >98%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue

**SDS-PAGE Image:**



SDS PAGE Analysis Lane 1: Molecular Mass Markers. Lane 2: 2.5 µg Pr00106 resolved by SDS-PAGE under non-reducing (NR) conditions. Lane 3: 2.5 µg Pr00106 resolved by SDS-PAGE under reducing conditions (coomassie stained).

**ELISA of anti-epitope tag antibodies on multi-tag protein:**

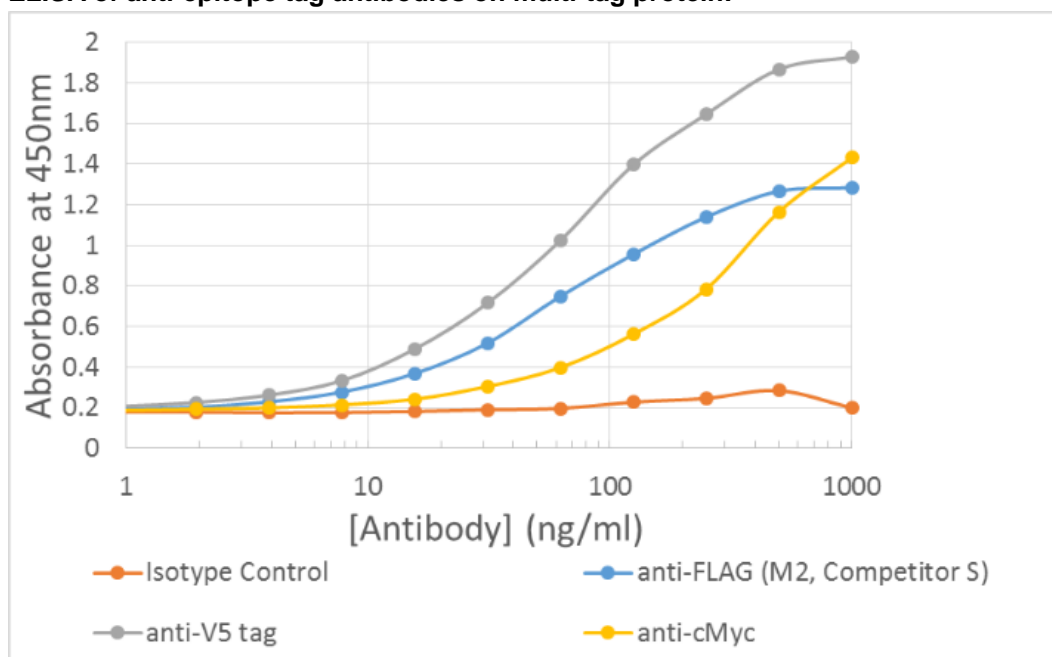
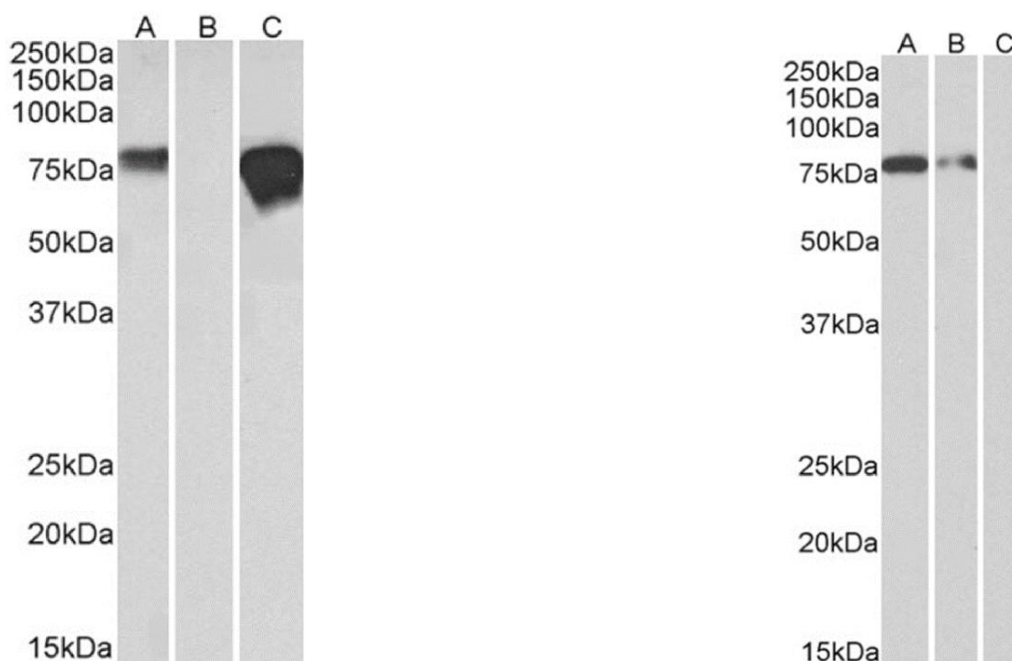


Plate coated with 5ug/ml of Multitag protein (Pr00106, Absolute Antibody). Primary antibody loaded at 1000ng/ml in first well and an 11 point serial dilution performed in duplicate for each antibody with last well left blank. Signal detection performed using HRP-conjugated goat anti-mouse (AbD Serotec, 0300-0108P).

**Western Blots**



**Left Panel:** Anti-cMyc tag antibody (clone 9E10 as mouse IgG1, Ab00100-1.0) (2 µg/ml) staining of HEK293 spiked (A) and unspiked (B) with 5 ng multitag protein (35 µg protein in RIPA buffer). Lane C contains 25 ng purified multitag protein as positive control.

**Right Panel:** Anti-His tag antibody (clone 3D5, mouse IgG1, Ab00101-1.) (1 µg/ml) staining of Multitag protein at 25 ng (A), 10 ng (B) and 5 ng (C) amounts. Primary incubation was 1 hour. Detected by chemiluminescence.

**Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals**