



Quality Control Ranges
MILLIPLEX Mouse Immuno-Oncology Checkpoint Protein Panel 1
Catalog No. MCKP1-110K, MCKP1-110K-PX28, MCKP1-110K-PBK28
Control Catalog No. MCKP1-6110 Lot No. MCKP1-103 and MCKP1-203

<u>Analyte</u>	<u>QC Level</u>	<u>Expected Range</u>	<u>Units</u>	<u>Analyte</u>	<u>QC Level</u>	<u>Expected Range</u>	<u>Units</u>
CD137	Control 1	77 - 159	pg/mL	GITR	Control 1	357 - 741	pg/mL
	Control 2	283 - 588	pg/mL		Control 2	1427 - 2964	pg/mL
HVEM	Control 1	12 - 25	pg/mL	B7-H2/ICOSL	Control1	241 - 500	pg/ml
	Control 2	48 - 99	pg/mL		Control 2	941 - 1954	pg/ml
BTLA	Control 1	177 - 367	pg/mL	B7-H3/CD276	Control1	30 - 62	pg/ml
	Control 2	689 - 1449	pg/mL		Control 2	111 - 230	pg/ml
TIM-3	Control 1	48 - 100	pg/mL	CD25/IL-2R α	Control1	23 - 47	pg/ml
	Control 2	196 - 407	pg/mL		Control 2	90 - 187	pg/ml
Granzyme B	Control 1	78 - 162	pg/mL	IL-10	Control1	96 - 199	pg/ml
	Control 2	301 - 625	pg/mL		Control 2	379 - 786	pg/ml
IFN γ	Control 1	18 - 38	pg/mL	BCA-1/CXCL-13	Control1	246 - 510	pg/ml
	Control 2	69 - 143	pg/mL		Control 2	945 - 1962	pg/ml
LAG-3	Control 1	3594 - 7464	pg/mL	CD27	Control1	454 - 944	pg/ml
	Control 2	14200 - 29491	pg/mL		Control 2	1753 - 3640	pg/ml
PD-1	Control 1	469 - 974	pg/mL	CD40	Control1	119 - 248	pg/ml
	Control 2	1900 - 3947	pg/mL		Control 2	468 - 972	pg/ml
PD-L1	Control 1	112 - 232	pg/mL	CD80/B7-1	Control1	310 - 644	pg/ml
	Control 2	450 - 934	pg/mL		Control 2	1213 - 2520	pg/ml
PD-L2	Control 1	56 - 122	pg/mL	CD226/DNAM-1	Control1	130 - 270	pg/ml
	Control 2	230 - 478	pg/mL		Control 2	505 - 1049	pg/ml
CTLA-4/CD152	Control 1	54 - 112	pg/mL	4-1BBL/TNF SF9	Control1	121 - 251	pg/ml
	Control 2	204 - 424	pg/mL		Control 2	469 - 974	pg/ml

*****Additional Analytes on reverse side*****

Note: The Quality Control Ranges are generated with overnight assay format using serum matrix provided in the kit.
MCKP1-6110: MCKP1-103.203 (15 August 2025) • [SigmaAldrich.com/support](https://www.sigmaaldrich.com/support) • [SigmaAldrich.com](https://www.sigmaaldrich.com)

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<u>Cytokine</u>	<u>QC Level</u>	<u>Expected Range</u>	<u>Units</u>
TLR-2	Control1	3751 - 7790	pg/ml
	Control 2	14439 - 29989	pg/ml
Galectin-1	Control1	35 - 73	pg/ml
	Control 2	129 - 268	pg/ml
Galectin-3	Control1	350 - 727	pg/ml
	Control 2	1329 - 2761	pg/ml
5'-NT/CD73	Control1	1165 - 2419	pg/ml
	Control 2	4365 - 9065	pg/ml
E-Cadherin	Control1	2991 - 6212	pg/ml
	Control 2	11899 - 24713	pg/ml
TNF α	Control1	35 - 73	pg/ml
	Control 2	141 - 292	pg/ml

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