



QUALITY CONTROL RANGES

MILLIPLEX® MAP Human Immuno-Oncology Checkpoint Protein

Panel 1

Kit Catalog# HCKP1-11K

Control Catalog # HCKP1-6011

Lot# HCKP1-108 and HCKP1-208

<u>Cytokine</u>	<u>QC Level</u>	<u>Expected</u>	<u>Units</u>	<u>Cytokine</u>	<u>QC Level</u>	<u>Expected Range</u>	<u>Units</u>
BTLA	Control 1	778 – 1616	pg/mL	GITRL	Control 1	417 – 866	pg/mL
	Control 2	4891 – 10158	pg/mL		Control 2	2682 – 5571	pg/mL
CD27	Control 1	418 – 867	pg/mL	PD-1	Control 1	547 – 1137	pg/mL
	Control 2	2687 – 5581	pg/mL		Control 2	3395 – 7051	pg/mL
CD28	Control 1	4269 – 8867	pg/mL	CTLA-4	Control 1	237 – 492	pg/mL
	Control 2	27259 – 56615	pg/mL		Control 2	1317 – 2735	pg/mL
TIM-3	Control 1	99 – 206	pg/mL	CD80/B7-1	Control 1	239 – 496	pg/mL
	Control 2	609 – 1266	pg/mL		Control 2	1436 – 2982	pg/mL
HVEM	Control 1	41 – 85	pg/mL	CD86/B7-2	Control 1	1530 – 3178	pg/mL
	Control 2	257 – 534	pg/mL		Control 2	9186 – 19078	pg/mL
CD40	Control 1	91 – 189	pg/mL	PD-L1	Control 1	102 – 211	pg/mL
	Control 2	547 – 1136	pg/mL		Control 2	646 – 1342	pg/mL
GITR	Control 1	79 – 165	pg/mL	PD-L2	Control 1	904 – 1877	pg/mL
	Control 2	602 – 1250	pg/mL		Control 2	5215 – 10831	pg/mL
LAG-3	Control 1	2323 – 4826	pg/mL	ICOS	Control 1	865 – 1796	pg/mL
	Control 2	14487 – 30089	pg/mL		Control 2	5534 – 11493	pg/mL
TLR-2	Control 1	1452 – 3016	pg/mL				
	Control 2	8833 – 18346	pg/mL				

Note: The Quality Control Ranges are generated with overnight assay format using serum matrix provided in the kit. Quality Control values in culture media are not tested.

HCKP1-6011: HCKP1-108.208 (08 November 2024)

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