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**Supplemental information**

**Humoral and cellular immune memory**

**to four COVID-19 vaccines**

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## Supplemental Tables

**Table S1. Reagents used for AIM assays. Related to STAR Methods.**

<b>Reagent</b>	<b>Clone (Source)</b>	<b>Catalog. No.</b>	<b>Dilution</b>
Live/Dead Blue	(ThermoFisher)	L23105	1:1000
CCR6-BUV496	11A9 (BD Biosciences)	612948	1:200
CXCR5-BV421	J252D4 (Biolegend)	356920	1:200
CXCR3-BV605	G025H7 (Biolegend)	353728	1:200
CCR7-BV711	G043H7 (Biolegend)	353228	1:200
CD3-BUV395	UCHT1 (BD Biosciences)	563546	1:1000
CD137-BUV737	4B4-1 (BD Biosciences)	741861	1:100
CD8-BUV805	SK1 (BD Biosciences)	612889	1:1000
CD16-BV510	3G8 (Biolegend)	302048	1:1000
CD14-BV510	63D3 (Biolegend)	367124	1:1000
CD20-BV510	2H7 (Biolegend)	302340	1:1000
CD45RA-BV570	HI100 (Biolegend)	304132	1:1000
CD38-BV650	HB-7 (Biolegend)	356620	1:200
PD-1-BV785	EH12.2H7 (Biolegend)	329930	1:200
CD69-FITC	FN50 (Biolegend)	310904	1:200
CD4-cFluor b548	SK3 (Cytex Biosciences)	R7-20043	1:500
CD95-BB700	DX2 (BD Biosciences)	566542	1:500
CD40L-PE-Dazzle594	24-31 (Biolegend)	310840	1:200
OX40-APC	Ber-Act35 (Biolegend)	350008	1:100
HLA-DR-APC-R700	G46-6 (BD Biosciences)	565127	1:500

**Table S2. Reagents used for ICS assays. Related to STAR Methods.**

<b>Reagent</b>	<b>Clone (Source)</b>	<b>Catalog. No.</b>	<b>Dilution</b>
Live/Dead Blue	(ThermoFisher)	L23105	1:1000
CD3-BUV395	UCHT1 (BD Biosciences)	563546	1:100
CD8-BUV805	SK1 (BD Biosciences)	612889	1:100
CD16-BV510	3G8 (Biolegend)	302048	1:200
CD14-BV510	63D3 (Biolegend)	367124	1:200
CD20-BV510	2H7 (Biolegend)	302340	1:200
CD45RA-BV570	HI100 (Biolegend)	304132	1:50
CD4-cFluor b548	SK3 (Cytex Biosciences)	R7-20043	1:25
CD69-BV605	FN50 (BD Biosciences)	562989	1:100
CCR7-PE-Cy7	G043H7 (Biolegend)	353226	1:100
IL-4-BUV737	MP4-25D2 (BD Biosciences)	612835	1:200
IL-17-BV785	BL168 (Biolegend)	512338	1:100
IFN $\gamma$ -FITC	4S.B3 (ThermoFisher)	11-7319-82	1:500
IL-2-BB700	MQ1-17H12 (BD Biosciences)	566405	1:200
IL-10 -PE-Dazzle594	JES3-19F1 (Biolegend)	506812	1:100
TNF $\alpha$ -eFluor450	Mab11 (ThermoFisher)	48-7349-42	1:200
Granzyme B-AF647	GB11 (BD Biosciences)	560212	1:50
CD40L-PerCP-ef710	24-31 (ThermoFisher)	46-1548-42	1:50

**Table S3. Reagents used for B cell assays. Related to STAR Methods.**

<b>Reagent</b>	<b>Clone (Source)</b>	<b>Catalog. No.</b>	<b>Dilution</b>
Live/Dead Blue	(Thermo Fisher)	L34962	1:200
CD19-BUV563	SJ25C1 (BD Biosciences)	612916	1:200
CD95-BUV737	DX2 (BD Biosciences)	612790	1:200
CD183-BUV805	1C6/CXCR3 (BD Biosciences)	742048	1:50
IgD-Pacific Blue	IA6-2 (Biolegend)	348224	1:50
CD20-Brilliant Violet 510	2H7 (Biolegend)	302340	1:100
IgM-Brilliant Violet 570	MHM-88 (Biolegend)	314517	1:200
T-bet Brilliant Violet 605	4B10 (Biolegend)	644817	1:50
CD27-BB515	M-T271 (BD Biosciences)	564642	1:200
IgA-VioBright-FITC	IS11-8E10 (Miltenyi Biotec)	130-113-480	1:400
CD3-PerCP	SK7 (Biolegend)	344814	1:100
CD14-PerCP	63D3 (Biolegend)	367152	1:200
CD16-PerCP	3G8 (Biolegend)	302030	1:200
CD56-PerCP	HCD56 (Biolegend)	318342	1:200
IgG-PerCP-Cyanine5.5	M1310G05 (Biolegend)	410710	1:100
CD71-PE-Dazzle 594	CY1G4 (Biolegend)	334120	1:200
CD11c-PE-Cy5	3.9 (Biolegend)	301610	1:200
CD21-Alexa Fluor 700	Bu32 (Biolegend)	354918	1:50
CD38-APC-Fire 810	HIT2 (Biolegend)	303550	1:200
Alexa Fluor 647 Streptavidin	(Thermo Fisher)	S21374	1:59
BV421 Streptavidin	(Biolegend)	405225	1:59
BV711 Streptavidin	(Biolegend)	405241	1:400
PE-Cy7 Streptavidin	(Biolegend)	405206	1:400
PE-Cy5.5 Streptavidin	(Thermo Fisher)	SA1018	1:500