

Supplementary Table 2. Comparison of immunological characteristics of eosinophilic polyps, non-eosinophilic polyps, and control based on different criteria

Cytokine	Control (n=11)	EOS>20%		≥70 EOS/HPF		>55 EOS/HPF		≥10 EOS/HPF		P-value			
		E (n=35)	NE (n=38)	P-value	E (n=13)	NE (n=60)	P-value	E (n=22)	NE (n=51)				
A1AT (ng/mL)	9.1±7.5	21.2±60.5	10.3±19.0	-	31.0±74.6	12.2±34.3	-	30.8±75.0	8.9±17.0	-	19.6±52.0	6.1±9.4	-
TGF-β (pg/mL)	192.6±143.0	65.4±55.5	63.6±33.0	>0.999	68.1±28.5	63.7±48.2	0.806	73.6±67.2	60.5±31.0	>0.999	68.6±48.6	54.8±33.8	0.315
MPO (pg/mL)	22,745.8±25,307.4	20,031.6±51,382.3	57,061.7±90,627.3	0.057	28,615.9±46,748.4	41,624.1±81,366.2	-	24,786.7±47,335.2	45,571.5±85,433.8	-	37,268.8±77,908.6	44,033.9±73,823.7	-
IL-22 (pg/mL)	4.9±6.9	5.8±9.2	2.8±3.2	-	5.8±6.6	3.9±7.0	-	4.8±6.2	4.0±7.2	-	5.0±8.0	2.6±2.8	-
MIP1β (pg/mL)	106.0±54.2	102.0±49.6	120.4±49.6	-	121.6±52.0	109.4±52.4	-	111.4±60.0	111.6±49.2	-	112.3±56.7	110.0±40.8	-
IFN-γ (pg/mL)	1.6±1.7	3.0±3.8	4.4±4.4	-	5.3±5.4	3.4±3.8	-	3.9±4.8	3.6±3.9	-	3.5±4.0	4.2±4.6	-
IL-1β (pg/mL)	0.3±0.5	0.7±2.1	4.1±4.6	<0.001 ^{a)}	0.9±1.5	2.8±4.3	-	0.5±1.2	3.3±4.4	0.014 ^{a)}	1.7±3.3	4.3±4.9	0.011 ^{a)}
IL-12 (pg/mL)	0.4±0.7	0.4±1.1	1.7±3.0	0.031 ^{a)}	0.9±2.0	1.1±1.5	-	0.6±1.5	1.2±2.7	-	0.6±1.7	2.1±3.4	-
IL-33 (pg/mL)	1,562.9±918.9	870.8±571.6	1,120.1±557.7	0.127	1,022.5±645.3	995.8±563.6	-	895.1±618.5	1,046.0±554.3	0.491	897.4±544.1	1,239.7±583.2	0.089
IL-5 (pg/mL)	0.3±0.0	13.1±13.5	4.8±17.6	<0.001 ^{a)}	15.7±14.2	7.3±16.4	0.004 ^{a)}	13.0±11.5	6.9±17.7	<0.001 ^{a)}	12.4±18.3	0.4±0.3	<0.001 ^{a)}
IL-6 (pg/mL)	3.3±5.3	7.5±14.5	23.9±47.5	0.023 ^{b)}	7.9±9.2	17.8±39.8	>0.999	7.4±10.1	19.8±42.7	>0.999	17.4±42.3	12.9±16.4	>0.999
IL-8 (pg/mL)	33.4±16.4	122.3±153.2	389.4±435.9	<0.001 ^{a)}	236.8±354.2	266.6±359.3	0.977	188.9±281.2	292.6±382.2	0.329	235.4±352.5	321.4±365.3	0.259
TNF-α (pg/mL)	1.0±0.6	0.9±0.6	1.4±0.8	0.004 ^{b)}	1.1±0.4	1.2±0.8	-	1.0±0.7	1.3±0.8	-	1.1±0.7	1.4±0.7	-
HNE (ng/mL)	11,455.5±10,149.3	8,997.5±10,514.7	14,334.7±20,834.5	-	9,145.8±5,508.6	12,339.7±18,432.3	-	10,130.4±12,778.0	12,511.3±18,517.3	-	11,929.7±19,334.2	11,432.1±9,803.0	-

Values are presented as mean ± standard deviation.

EOS, eosinophils; HPF, high-power field; E, eosinophilic polyp; NE, non-eosinophilic polyp; A1AT, α1 anti-trypsin; TGF, tumor growth factor; MPO, myeloperoxidase; IL, interleukin; MIP, macrophage inflammatory protein; IFN, interferon; TNF, tumor necrosis factor; HNE, human neutrophil elastase.

^{a)}P-values <0.05 for non-eosinophilic polyp vs. eosinophilic polyp by Dunn multiple comparison. ^{b)}P-values >0.05 are denoted as hyphen for comparing non-eosinophilic polyp, eosinophilic polyp, and control by Kruskal-Wallis test.