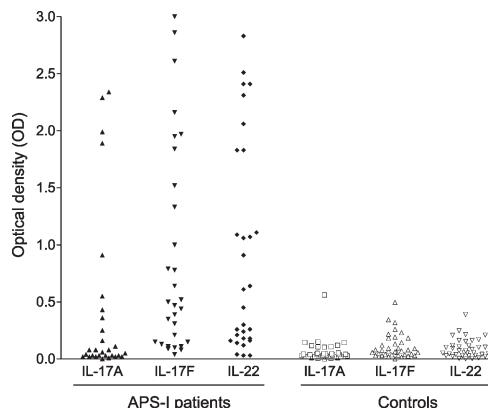
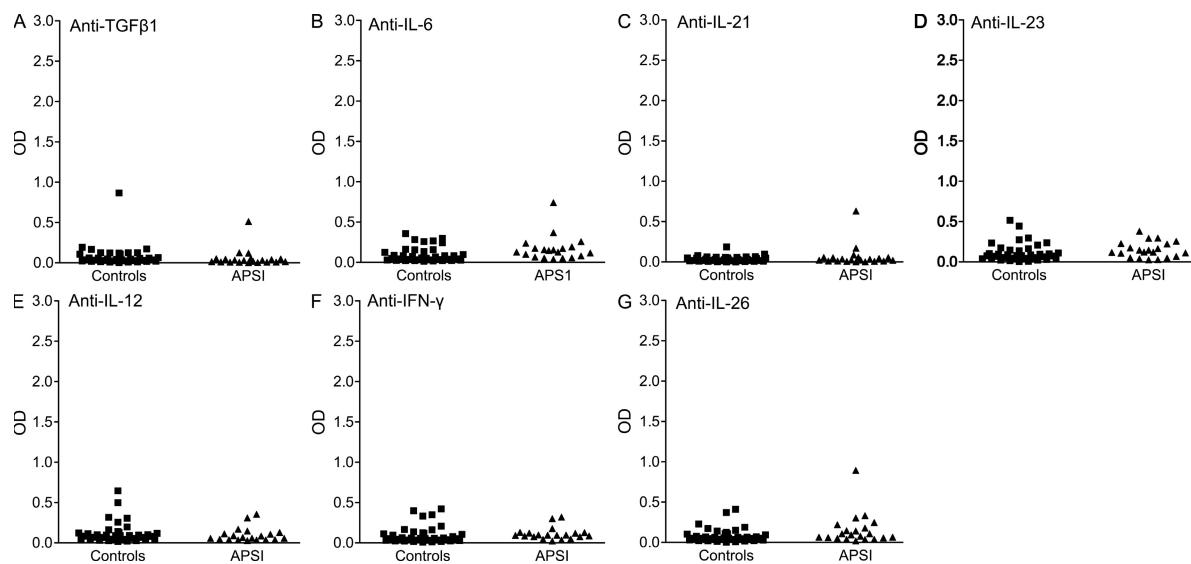


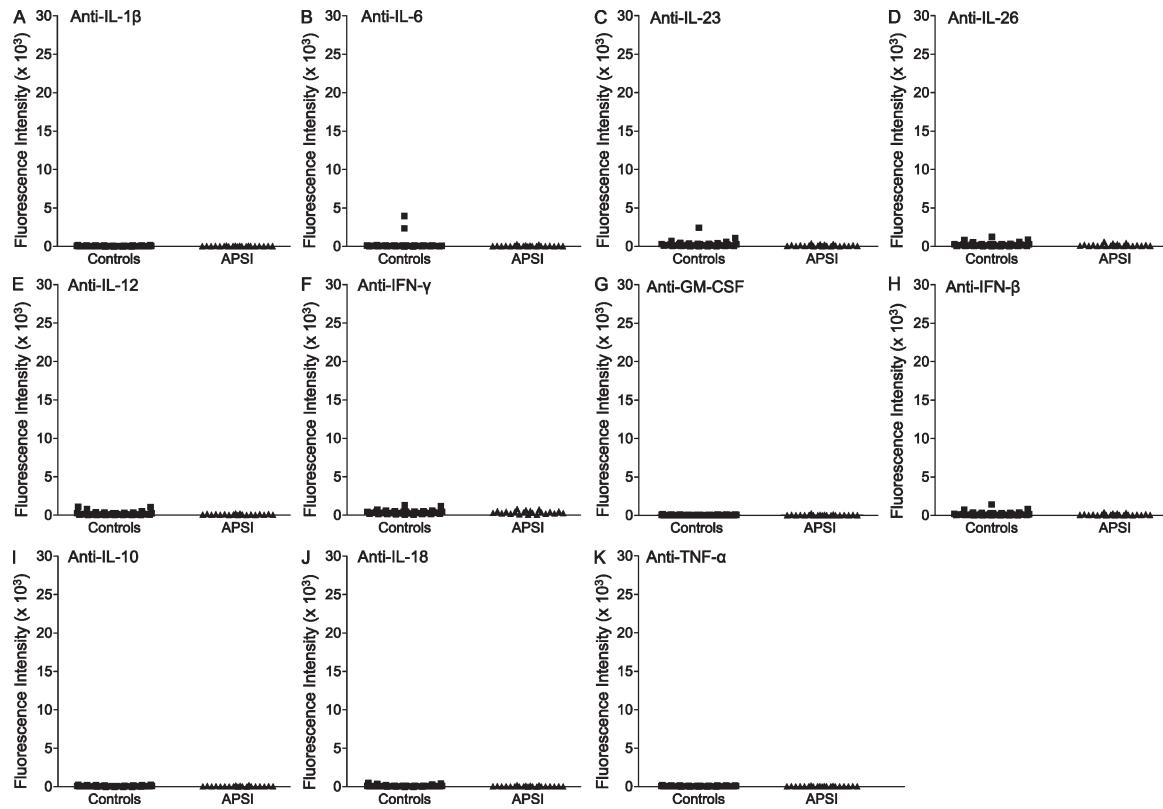
## SUPPLEMENTAL MATERIAL

Puel et al., <http://www.jem.org/cgi/content/full/jem.20091983/DC1>

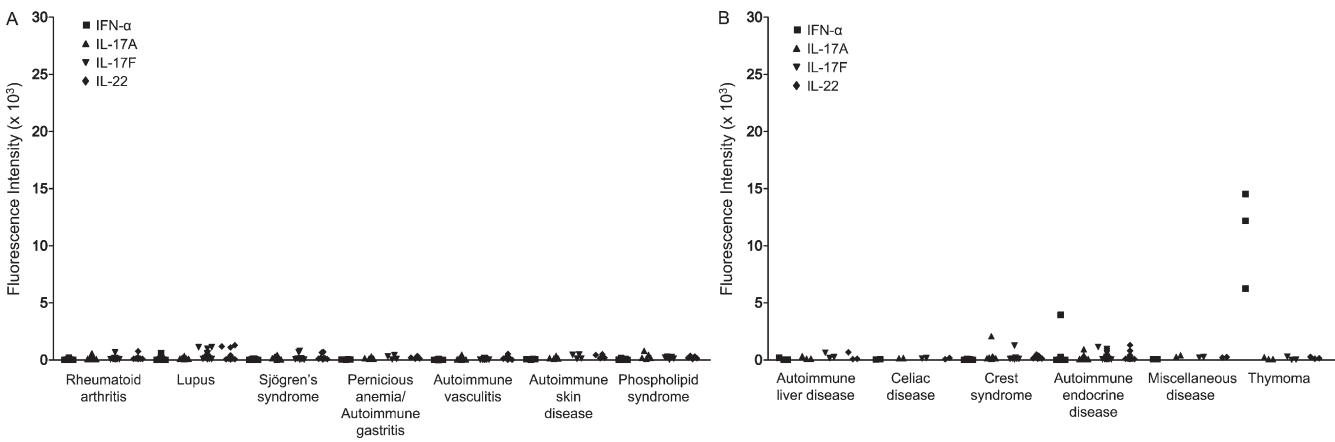
**Figure S1.** High titers of auto-Abs against IL-17A, IL-17F, and IL-22 in the plasma from patients with APS-I. Anti-IL-17A, -IL-17F, and -IL-22 circulating IgG titers were measured by classical ELISA on 30 samples from patients with APS-I and 37 samples from healthy controls. OD 450–630 is plotted on the y axis. The data shown are representative of two experiments.



**Figure S2.** No auto-Abs against TGF- $\beta$ 1, IL-6, IL-21, IL-23, IL-12, IFN- $\gamma$ , and IL-26 in the plasma from patients with APS-I. (A–G) Anti-TGF- $\beta$ 1, -IL-6, -IL-21, -IL-23, -IL-12, -IFN- $\gamma$ , and -IL-26 circulating IgG titers were measured by classical ELISA in 37 samples from healthy controls and 30 samples from patients with APS-I. OD 450–630 is plotted on the y axis.



**Figure S3.** No auto-Abs against IL-1 $\beta$ , IL-6, IL-23, IL-26, IL-12, IFN- $\gamma$ , GM-CSF, IFN- $\beta$ , IL-10, IL-18, and TNF in the plasma from patients with APS-I. (A-K) Anti-IL-1 $\beta$ , -IL-6, -IL-23, -IL-26, -IL-12, -IFN- $\gamma$ , -GM-CSF, -IFN- $\beta$ , -IL-10, -IL-18, and -TNF circulating IgG titers measured by multiplex particle-based flow cytometry in 37 samples from healthy controls and 33 samples from patients with APS-I. FI is plotted on the y axis.



**Figure S4.** No auto-Abs against IL-17A, IL-17F, and IL-22 in the plasma from patients with autoimmune and/or endocrine disorders. (A and B) Anti-IFN- $\alpha$ , -IL-17A, -IL-17F, and -IL-22 antibodies were measured in 103 patients suffering from autoimmune and/or endocrine disorders: rheumatoid arthritis ( $n = 12$ ), lupus ( $n = 17$ ), Sjögren's syndrome ( $n = 8$ ), pernicious anemia/autoimmune gastritis ( $n = 4$ ), autoimmune vasculitis ( $n = 10$ ), autoimmune skin diseases ( $n = 4$ ), phospholipid syndrome ( $n = 5$ ), autoimmune liver disease ( $n = 3$ ), celiac disease ( $n = 2$ ), CREST syndrome ( $n = 7$ ), autoimmune endocrine diseases (hypothyroidism,  $n = 14$ ; Graves' disease,  $n = 6$ ; type 1 diabetes,  $n = 6$ ), miscellaneous diseases ( $n = 2$ ), and thymoma ( $n = 3$ ).

**Table S1.** APS-I patients tested

Patients	Endocrine/autoimmune phenotype	Treatment
APS-1	Kidneys	Fluconazole, voriconazole
APS-2	Adrenal and parathyroid glands, pancreas, liver, celiac disease	Terbinafine, teriparatide, uvedose, hydrocortisone, carbamazepine
APS-3	Adrenal and parathyroid glands	Terbinafine, teriparatide, uvedose, hydrocortisone
APS-4	Parathyroid, thyroid, adrenal, and ovarian glands, pancreas, Biermer disease	Levothyrox, rocaltrol, hydrocortisone, fludrocortisone, Creon
APS-5	Adrenal, parathyroid, and hypophyse glands, pancreas, Biermer disease	Fluconazole, HydroC, FludroC, Creon, Rocaltrol, Caltrate, Magne B6, uvedose, tardiferon, Androtardyl, genotonorm
APS-6	None	Fluconazole, Un- $\alpha$ , cyclosporine eye drops
APS-7	Adrenal glands	Fluconazole, Ig, hydrocortisone, fludrocortisone
APS-8	Parathyroid and adrenal glands	Antifungals
APS-9	Parathyroid and adrenal glands, digestive tract	Methotrexate, hydrocortisone, fluconazole/itraconazole, antibiotics
APS-10	Parathyroid and adrenal glands, gonads, IDDM	Adalat, spiro lactone, 1- $\alpha$ , frusemide, vitamin B, hydrocortisone, fluconazole/itraconazole, antibiotics
APS-11	Parathyroid and adrenal glands, gonads, IDDM, pernicious anemia	Vitamin B12, blood transfer for pernicious anemia, fluconazole
APS-12	Parathyroid and adrenal glands, gonads, digestive tract	Fluconazole/itraconazole
APS-13	Parathyroid and adrenal glands, gonads, digestive tract, enamel dysplasia	Calcitriol, vitamin D, prednisolone, Florinef, Fe, hormone replacement
APS-14	Adrenal glands, liver	Fluconazole
APS-15	None	Fluconazole
APS-16	Parathyroid and adrenal glands, digestive tract, enamel dysplasia	Hydrocortisone/fludrocortisone, fluconazole
APS-17	Adrenal glands, enamel dysplasia	Hydrocortisone
APS-18	Parathyroid and adrenal glands, enamel dysplasia	Fluconazole/itraconazole
APS-19	Adrenal glands, digestive tract	Fluconazole/itraconazole, antibiotics, subcut Ig
APS-20	Parathyroid and adrenal glands	Hydrocortisone, $\alpha$ calcidol, fluconazole/itraconazole
APS-21	IDDM, liver, pancreas, digestive tract	Fluconazole
APS-22	Parathyroid and adrenal glands, myopathy	Fluconazole
APS-23	None	None
APS-24	Parathyroid gland	Rocaltron
APS-25	Parathyroid gland	Rocaltron, Cortef, Astonin H
APS-26	Parathyroid and adrenal glands	Rocaltron, Cortef, Genotropin, estrophene
APS-27	Parathyroid gland, enamel defect, Addison's disease	Hydrocortisone, fludrocortisone, vitamin D 1,25 dihydroxycholecalciferol, Ca supp.
APS-28	Parathyroid and thyroid glands, Addison's disease, enamel defect	Hydrocortisone, fludrocortisone, levothyroxine, vitamin D 1,25 dihydroxycholecalciferol, Ca supp., fluconazole, amlodipine, perindopril, vitamin B12, Ca <sup>2+</sup>
APS-29	Parathyroid gland, Addison's disease	Hydricotisone, fludrocortisone, estrogen + progesterone (Demulen), vitamin D 1,25 dihydroxycholecalciferol, Ca carbonate
APS-30	Gonads	Hydrocortisone, fludrocortisone, vitamin D 1,25 dihydroxycholecalciferol, Ca <sup>2+</sup> carbonate
APS-31	Parathyroid gland, digestive tract	Fludrocortisone, hydrocortisone, mycophenolate mofetil, pilocarpine, vitamin D 1,25 dihydroxycholecalciferol, Ca supp.
APS-32	Parathyroid gland, type 1 diabetes, Addison's disease, lymphocytic leukemia	Fluconazole, vitamin B12, insulin, hydrocortisone, methotrexate
APS-33	Thyroid gland, auto-Abs to ovaries and adrenal glands	Itraconazole

APS-I patients tested, with their respective autoimmune/endocrine phenotypes and treatments. IDDM, insulin-dependent diabetes mellitus.