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## Genetic defects for apoptosis in immune system and autoimmunity

Autoimmune lymphoproliferation syndromes (ALPs)	Gene mutated
Ia	Fas
Ib	Fas
Ic or Im	Fas
П	Caspase-10)
ш	Molecularly undefined

· Defect in negative selection

• Defect in <u>engulfment</u> (absence of tolerance, chronic inflammation)

• Defect in the <u>shutdown</u> of immune responses (contraction phase)

From: N. Bidère et al, Annu. Rev In Immunol, 2006, 24:321.















