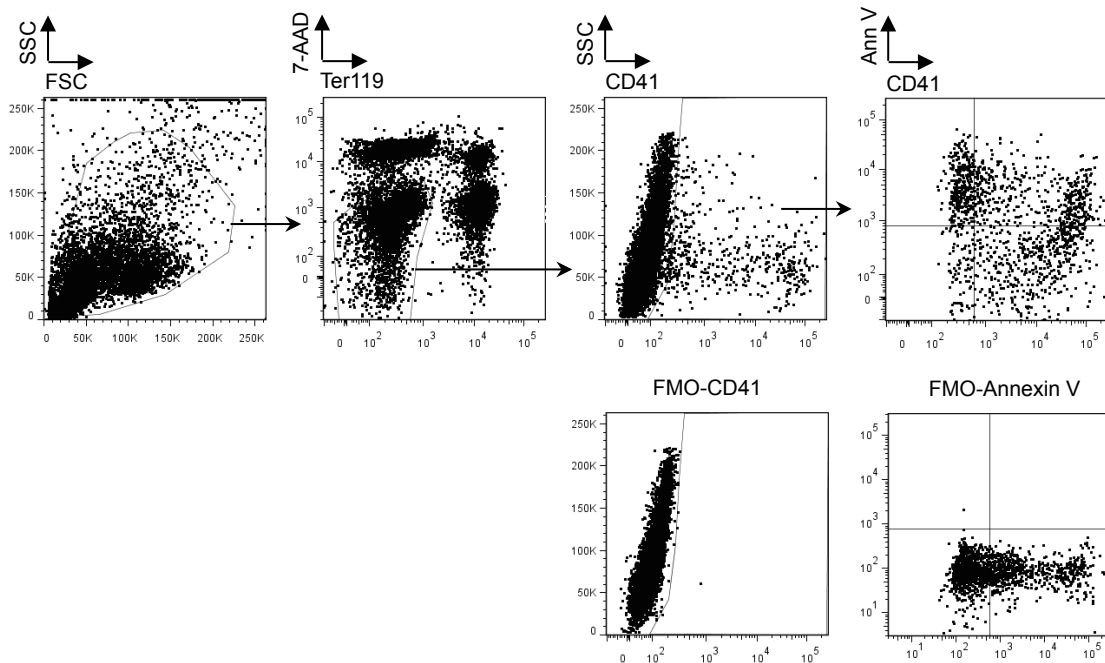


Fig. S1. Crossing strategy. Mouse crossing to reactivate $Runx1^{LacZ}$ locus *in vivo* in the CD41 compartment. Statistically, every 1 of 8 embryos is reactivated.

A



B

Sample	Hematopoietic clusters and cells in Ao				CD45 in surrounding tissues*	
	Casp-3+ (total no.) clusters	Casp-3+ (total no.) cells	% apoptotic cells in intra-aortic clusters	% apoptotic intra-aortic clusters	CD45+Casp-3+ (total no.) cells	% apoptotic cells
embryo 1	7 (16)	10 (71)	14.1	43.8	35 (79)	44.3
embryo 2	11 (26)	22 (106)	20.8	42.3	55 (117)	47.0
embryo 3	8 (16)	10 (78)	12.80	50.0	14 (45)	31.1
embryo 4	3 (12)	5 (48)	10.40	25.0	42 (91)	46.2
embryo 5	16 (29)	25 (119)	21.0	55.2	28 (78)	35.9

Fig. S2. Analysis of apoptotic cells in AGM region. (A) Gating strategy for analysis of Annexin V staining in the E10.5 CD41+ population. FMO controls for CD41 and Annexin V stainings are shown in the lower row. **(B)** Active Caspase3 staining in E11.5 intra-aortic clusters and CD45+ cells in the mesenchyme surrounding the dorsal aorta