

Table S1. Surface markers used to characterize cells associated to initial steps of hematopoiesis.

Cell Type	Surface Markers	Reference
LT-HSC	Lin ⁻ c-Kit ⁺ Sca1 ⁺ CD34 ⁻ Flk2 ⁻ (mouse)	[19]
	CD201 ⁺ CD150 ⁺ CD48 ⁻ Lin ⁻ c-Kit ⁺ Sca-1 ⁺ (mouse)	Reviewed by Cheng 2020 [140]
	CD34 ⁺ Flk2 ⁻ Lin ⁻ c-Kit ⁺ Sca-1 ⁺ (mouse)	Reviewed by Cheng 2020 [140]
	Lin ⁻ c-Kit ⁺ Sca-1 ⁺ Flk2 ⁻ CD34 ⁻ Slamf1 ⁺ (mouse)	Reviewed by Chotinantakul 2012 [141]
	Lin ⁻ CD34 ⁺ CD38 ⁻ CD90 ^{+/-} CD45RA ⁻ CD49f ⁺ Rho ^{low} (human)	Reviewed by Chotinantakul 2012 [141]
ST-HSC	CD34 ⁺ Flk2 ⁻ Lin ⁻ c-Kit ⁺ Sca-1 ⁺ (mouse)	Reviewed by Cheng 2020 [140]
	Lin ⁻ c-Kit ⁺ Sca-1 ⁺ Flk2 ⁻ CD34 ⁺ Slamf1 ⁺ (mouse)	Reviewed by Chotinantakul 2012 [141]
	Lin ⁻ CD34 ⁺ CD38 ⁻ CD90 ^{+/-} CD45RA ⁻ CD49f ⁺ Rho ⁻ (human)	Reviewed by Chotinantakul 2012 [141]
HSC (in general)	CD34 ⁺ CD38 ⁻ Thy1 ⁻ CD45RA ⁻ CD49f ⁺ (human)	[17]
	CD34 ⁺ CD38 ⁻ Thy-1 ⁺ CD45RA ⁻ Flt3 ⁺ CD7 ⁻ CD10 ⁻ (human)	[20]
MPP	CD34 ⁺ CD38 ⁻ Thy1 ⁻ CD45RA ⁻ CD49f ⁻ (human)	[17]
	CD34 ⁺ CD38 ⁻ Thy-1 ⁻ CD45RA ⁻ Flt3 ⁺ CD7 ⁻ CD10 ⁻ (human)	[20]
	CD34 ⁺ Flk2 ⁺ Lin ⁻ c-Kit ⁺ Sca-1 ⁺ (mouse)	Reviewed by Cheng 2020 [140]
	CD150 ⁻ CD48 ⁻ Lin ⁻ c-Kit ⁺ Sca-1 ⁺ (mouse)	Reviewed by Cheng 2020 [140]
	Lin ⁻ c-Kit ⁺ Sca-1 ⁺ Flk2 ⁺ CD34 ⁺ Slamf1 ⁻ (mouse)	Reviewed by Chotinantakul 2012 [141]
CLP	CD34 ⁺ CD10 ⁺ CD24 ⁻ (human)	[142]
	Lin ⁻ CD34 ⁺ CD38 ⁺ CD10 ⁺ (human)	Reviewed by Chotinantakul 2012 [141]
	Lin ⁻ Flk2 ⁺ IL7R α ⁺ CD27 ⁺ (mouse)	Reviewed by Chotinantakul 2012 [141]
	Lin ⁻ c-Kit ^{low} Sca-1 ^{low} IL7R α ⁺ Flk2 ⁺ (mouse)	Reviewed by Cheng 2020 [140]
CMP	CD34 ⁺ CD38 ⁺ CD10 ⁻ FLT3 ⁺ CD45RA ⁻ (human)	[17]
	CD34 ⁺ CD38 ⁺ Thy-1 ⁻ CD45RA ⁻ Flt3 ⁺ CD7 ⁻ CD10 ⁻ (mouse)	[20]
	CD34 ⁺ CD38 ⁺ IL-3R α ⁺ CD45RA ⁻ (human)	[143]
	CD34 ⁺ Fc γ RII/III ^{low} Lin ⁻ c-Kit ⁺ Sca-1 ⁻ (mouse)	Reviewed by Cheng 2020 [140]
	Lin ⁻ CD34 ⁺ CD38 ⁺ IL3R α ^{low} CD45RA ⁻ (human)	Reviewed by Chotinantakul 2012 [141]
	Lin ⁻ c-Kit ⁺ Sca-1 ^{-/low} CD34 ⁺ Fc γ R ^{low} (mouse)	Reviewed by Chotinantakul 2012 [141]