

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: **List of predicted cleavage sites in the human α M β 2 integrin by the protease MT4-MMP.** List of predicted cleavage sites in the human α M β 2 integrin by the protease MT4-MMP determined by CleavPredict (<http://cleavpredict.sanfordburnham.org/>). A and B after the residue number denotes its presence in the α M or β 2 integrin chains. Those exposed sites with higher score for cleavage have been highlighted in grey. Cleavage site in position 977A was selected for validation (highlighted in green).

File Name: Supplementary Movie 1

Description: **Crawling of patrolling monocytes in MT4-MMP WT mice with IgG.** Directly labeled antibodies to CD115 (red) and Ly6C (green) were injected into mice previously injected with isotype IgG. Intravital microscopy recording in the cremaster was performed 4 h after injection of CCL2.

File Name: Supplementary Movie 2

Description: **Crawling of patrolling monocytes in MT4-MMP-null mice with IgG.** Directly labeled antibodies to CD115 (red) and Ly6C (green) were injected into mice previously injected with isotype IgG. Intravital microscopy recording in the cremaster was performed 4 h after injection of CCL2.

File Name: Supplementary Movie 3

Description: **Crawling of patrolling monocytes in MT4-MMP WT mice with Itgam blocking antibody.** Directly labeled antibodies to CD115 (red) and Ly6C (green) were injected into mice previously injected with anti-Itgam blocking antibody. Intravital microscopy recording in the cremaster was performed 4 h after injection of CCL2.

File Name: Supplementary Movie 4

Description: **Crawling of patrolling monocytes in MT4-MMP-null mice with Itgam blocking antibody.** Directly labeled antibodies to CD115 (red) and Ly6C (green) were injected into mice previously injected with anti-Itgam blocking antibody. Intravital microscopy recording in the cremaster was performed 4 h after injection of CCL2.