

Table S1. Detail information of antibodies used in this study.

Antibody	Company (catalog number)	Dilution	Host
Twist	Santa Cruz Bitotechnology, INC (sc-6269)	1:300 (WB)	Goat
Cathepsin B	Cell signaling Technology (31718)	1:100 (IHC)	Rabbit
Slug	Santa Cruz Bitotechnology, INC (sc-15391)	1:300 (WB)	Rabbit
Snail	Novus (NBP1-80022)	1:1000 (WB)	Rabbit
CD34	Abcam(ab81289)	1:100 (IHC)	Rabbit monoclonal antibody
Hemoglobin A	Anbiping Bitotechnology, INC, Guangzhou, China (LBP-IHC-R184),	1:100 (IHC)	Rabbit
Anti-Hemoglobin delta chain	Epitomics, EPR8322	1:100(IHC)	Rabbit monoclonal antibody
Vimentin	Abcam(EPR3776)	1:100 (ICC)	Rabbit monoclonal antibody
E-cadherin	Abcam(ab7047)	1:100 (ICC)	Mouse
N-cadherin	Cell Signaling(13116)	1:100 (ICC)	Rabbit
$\beta$ -actin	Sigma-Aldrich (A5316)	1:100000 (WB)	Mouse

**Table S1.** IHC: Immunohistochemical staining; ICC:Immunocytochemical staining; WB: Western blot.