**Supplementary figure legends**

**Figure S1:** siRNA knockdown of PDGFRβ.AG01523 cells were transfected with siRNA targeting PDGFRβ, serum-starved overnight and stimulated with PDGF-BB for the indicated time periods, followed by cell lysis, SDS-PAGE and immunoblotting using the PDGFRβ ECD antibody (AF385). The arrow indicates the extracellular 130 kDa fragment.

**Figure S2:** Ligand-induced cleavage of PDGFRβ does not occur in U2OS cells. U2OS cells were serum-starved overnight and stimulated with 20 ng/ml PDGF-BB for the indicated time periods. After cell lysis, proteins were separated with SDS-PAGE and immunoblotting using the PDGFRβ ECD antibody (AF385).