

Figure S1. P4HA2 expression is elevated in hypoxic condition. A. Expressions of P4HA1 and P4HA3 in normal cervix and cervical cancer from GSE6791 dataset available at Oncomine (https://www.oncomine.org/), *P<0.05. B. P4HA1 and P4HA3 mRNA expression in cervical cancer with and without lymph node metastasis from GSE7410 dataset. C. P4HA2 mRNA expression in hypoxic condition and normal condition of cervical cancer cell lines from GSE75034 dataset. D. P4HA2 mRNA expression in cervical cancer patients with high and low degree of hypoxia score, *P<0.05. LN, lymph node; ns, not significant.

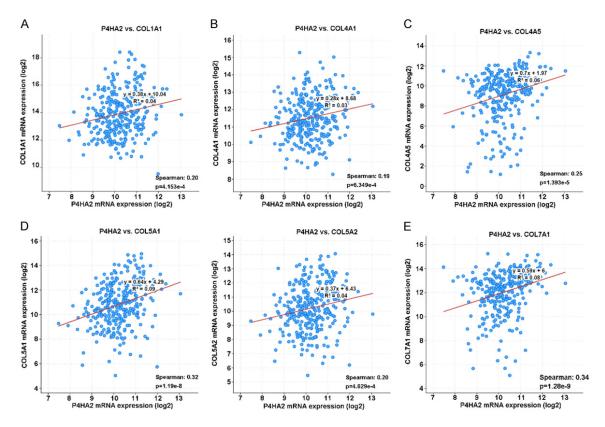


Figure S2. Association of P4HA2 expression with collagen deposition related genes. Positive correlation of P4HA2 expression with Col1A1 (R^2 =0.04, P=4.153e-4), Col4A1 (R^2 =0.03, P=6.394e-4), Col4A5 (R^2 =0.06, P=1.393e-5), Col5A1 (R^2 =0.09, P=1.19e-8), Col5A2 (R^2 =0.04, P=4.629e-4) and Col7A1 (R^2 =0.08, P=1.28e-9) expressions based on TCGA database.

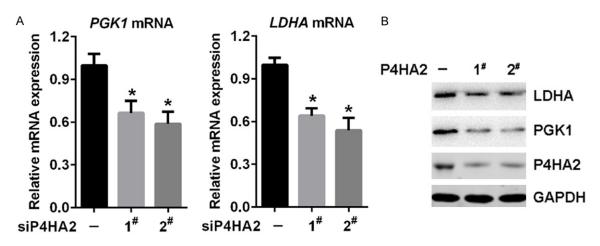


Figure S3. P4HA2 promotes glycolysis through PGK1 and LDHA. A. PGK1 and LDHA mRNA expression in SiHa cells treated with siP4HA2-1[#] and siP4HA2-2[#], *P<0.05 versus siNC group. B. PGK1 and LDHA protein levels in Hela cells treated with siP4HA2-1[#] and siP4HA2-2[#].