### Supplementary Table 5. Comparison of published clinicopathological studies of plasminogen activator family and matrix metalloproteinase family via immunohistochemical analysis in lung cancer.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Reference | Histology | Plasminogen activator family |  | Reference | Histology | Matrix metalloproteinase family |
|  |  | uPA | uPAR | PAI-1 | PAI-2 |  |  |  | MMP-2 | MMP-9 |
| Oka *et al.*, 1991[11] | Adenocarcinoma | (-) | × | × | × |  | Qian *et al.*, 2010[14] | NSCLC(meta-analysis) | (-) | × |
| Pavey *et al.,* 1996[12] | NSCLC | = | = | (-) | × |  | Peng *et al.*, 2012[15] | NSCLC (meta-analysis) | × | (-) |
| Yoshino *et al.,*1998[19] | NSCLC and small cell lung cancer | = | = | = | (+) |  | Cox *et al*, 2001[18] | StageI-IIIANSCLC | = | (-) |
| Volm *et al.*, 1999[13] | NSCLC | (-) | = | × | × |  | Ishikawa *et al*, 2004[21] | StageI-IIIANSCLC | (-)a | = |
| Robert *et al.*, 1999[20] | NSCLC | (-)a | × | (-)b | (+)a |  | Shao *et al.*, 2011[17] | Stage IANSCLC | =c | (-)c |
| Present study c | NSCLC | = | = | = | (+)Prognostic significance: 1st  |  | Present study c | NSCLC | = | (-)Prognostic significance: 2nd |
| (-): High expression correlated with unfavorable prognosis or unfavorable clinicopathological parameters such as higher T, N and M stage.(+): High expression correlated with favorable prognosis or favorable clinicopathological parameters such as lower T, N and M stage. =: The expression level did not correlate with prognosis.×: Not included in the studya Results from stromal cell IHC expression.b High tumor cell PAI-1 expression correlated with nodal involvement and higher tumor stage. High fibroblastic PAI-1 expression correlated with higher tumor stage.c From the results of multivariate cox regression analysis. |