

Supplementary Table 1. Activation of NF- κ B pathway in gastric lesions.

	human stomach cancer (TCGA)					
	intestinal			diffusive		
Upstream Regulator	Predicted Activation State	Activation z-score	p-value of overlap	Predicted Activation State	Activation z-score	p-value of overlap
NF κ B (complex)	Activated ^a	4.841	3.02E-11	Activated	5.089	1.38E-13

	human gastritis (GSE60662)								
	intestinal metaplasia			mild gastritis			severe gastritis		
Upstream Regulator	Predicted Activation State	Activation z-score	p-value of overlap	Predicted Activation State	Activation z-score	p-value of overlap	Predicted Activation State	Activation z-score	p-value of overlap
NF κ B (complex)	Activated	2.446	1.11E-04	Activated	5.518	9.32E-19	Activated	5.889	2.42E-13

^a, z-score > 2.0 is considered as significantly activated.