

**Table S1** Specific serum tumor markers and reference ranges for various malignant tumors

Primary tumors	Specific serum tumor markers	Reference ranges
Gastric and gastroesophageal adenocarcinoma (n=10)	CA724 (n=4)	0-6.9 U/mL
	AFP (n=3)	0-13.6 ng/mL
	CEA (n=2)	0-5 ng/mL
	CA125 (n=1)	0-35 U/mL
Hepatocellular carcinoma (n=5)	AFP (n=5)	0-13.6 ng/mL
Non-small cell lung cancer (n=5)	CYFRA (squamous cell carcinoma, n=3)	0-3.3 ng/mL
	CEA (adenocarcinoma, n=2)	0-5 ng/mL
Esophageal squamous cell carcinoma (n=2)	CYFRA (n=2)	0-3.3 ng/mL
Small cell lung cancer (n=1)	NSE (n=1)	0-16.3 ug/L
Ureteral urothelial carcinoma (n=1)	CYFRA (n=1)	0-3.3 ng/mL
Lymphoma (n=1)	$\beta$ 2-microglobulin (n=1)	1-3 mg/L
Hypopharyngeal squamous cell carcinoma (n=1)	CYFRA (n=1)	0-3.3 ng/mL
Colorectal Adenocarcinoma (n=1)	CEA (n=1)	0-6.9 U/mL

CA724: carbohydrate antigen 724; AFP: alpha-fetoprotein; CEA: carcinoembryonic antigen; CA125: carbohydrate antigen 125; CYFRA: cytokeratin fragment; NSE: neuron-specific enolase.