

## Product Data Sheet

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<b>Cat#:</b>	AP-314-U
<b>Cat#:</b>	AP-314-B, Biotin labeled
<b>Cat#:</b>	AP-314-F, FITC labeled
<b>Product Description:</b>	Human Gastric Adenocarcinoma
<b>Aptamer Type:</b>	Peptide
<b>Sequence:</b>	CGNSNPKSC; 9-mer
<b>Size</b>	5 mg
<b>Mol. Wt:</b>	991.17 g/mole
<b>Purity:</b>	>95%
<b>Affinity:</b>	n/a
<b>Comments:</b>	n/a

**Notes:** There was around 137.26-fold increase in the number of the selected phage in gastric cancer xenograft in comparison with control organs brain, heart, liver, spleen and kidney. Immunohistochemistry in mouse and human tissue showed that this phage peptide only bind to the endothelial cells of human gastric cancer. This peptide was observed only specific binding to HUVEC not to SGC-7901, Eca-109, LoVo and Hep-G2 by ELISA. The competitive and inhibitory result between the synthetic CGNSNPKSC peptide and the phage displaying the peptide CGNSNPKSC on HUVEC and in vivo was also confirmed its specific binding effect.

**References:** Zhi et al. "Characterization of a Specific Phage-Displayed Peptide Binding to Vasculature of Human Gastric Cancer." *Cancer Biology & Therapy*, 3(2004): 1232-1235.

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