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Name of Journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 61322

Manuscript Type: MINIREVIEWS

Latest therapeutic target for gastric cancer: Anthrax toxin receptor 1

Sun KR *et al.* Research of ANTXR1

Ke-Ran Sun, ¹³ Hui-Fang Lv, Bei-Bei Chen, Cai-Yun Nie, Jing Zhao, Xiao-Bing Chen

Abstract

Anthrax toxin receptor 1 (ANTXR1), also known as tumor endothelial marker 8, is a highly conserved cell surface protein overexpressed in tumor-infiltrating vessels. It was first found in vascular endothelial cells of human colorectal cancer. ⁸ Although our understanding of its physiological function is limited, it has been found that ANTXR1 binds collagen and promotes migration of endothelial cells *in vitro*. ANTXR1 is upregulated in vessels of different tumor types in mice and humans, and is also

Anthrax toxin receptor 1/tumor endothelial marker 8 ...

<https://onlinelibrary.wiley.com/doi/epdf/10.1111/cas.14326>

Anthrax toxin receptor 1 (ANTXR1), a type I transmembrane protein, is one of the receptors that facilitates the entrance of **anthrax toxin** into cells. Previous studies have confirmed the pivotal role of ANTXR1 in progression and tumorigenesis of di-verse **cancer** types. However, the biological function of ANTXR1 in **gastric cancer** (GC) is still ...

Cited by: 5 Author: Chen Cai, Wei Dang, Shilei Liu, Ling Huan...

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Anthrax toxin receptor 1/tumor endothelial marker 8 ... 翻译此页

<https://onlinelibrary.wiley.com/doi/full/10.1111/cas.14326>

Anthrax toxin receptor 1, a 564 amino acid type I transmembrane protein, is known as one of the receptors that facilitate the entrance of **anthrax toxin** into cells. 13 Also known as TEM8, ANTXR1 specifically interacts with the protective antigen component of **anthrax toxin** and was originally identified by its overexpression in the endothelial ...

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Anthrax toxin receptor 1/tumor endothelial marker 8 ... 翻译此页

<https://www.ncbi.nlm.nih.gov/pubmed/31977138>

2020-1-24 - **Anthrax toxin receptor 1** (ANTXR1), a type I transmembrane protein, is one of the receptors that facilitates the entrance of **anthrax toxin** into cells. Previous studies have confirmed the pivotal role of ANTXR1 in progression and tumorigenesis of diverse **cancer** types. However, the biological function of ANTXR1 in **gastric cancer** (GC) is still unknown.

Structural basis for anthrax toxin receptor 1 ... 翻译此页

<https://www.pnas.org/content/115/46/E10934>

Anthrax toxin receptor 1 (ANTXR1), also known as Tumor Endothelial Marker 8, is overexpressed on the surface of tumor cells in over 60% of human cancers. A serious drawback for developing specific ligands for targeted therapy against ANTXR1 is the cross-reactivity with ANTXR2. Recently, ANTXR1 was identified as the high-affinity cellular **receptor** for Seneca Valley Virus (SVV).

Structural basis for anthrax toxin receptor 1 recognition ...

<https://www.pnas.org/content/pnas/early/2018/10/30/1810664115.full.pdf>

2018-10-30 - Recently, the use of oncolytic viruses in **cancer** therapy has become a realistic **therapeutic** option. Seneca Valley Virus (SVV) is a newly discovered picornavirus, which has earned a significant reputation as a potent oncolytic agent. **Anthrax toxin receptor 1** (ANTXR1), one of the cellular receptors for the protective antigen secreted

Anthrax toxin receptor 1 is the cellular receptor for ...

<https://dm5migu4zj3pb.cloudfront.net/manuscripts/93000/93472/cache/93472.2...>

2020-12-19 - as a **cancer therapeutic** in preclinical studies and early-phase clinical trials. Here, we have identified **anthrax toxin receptor 1** (ANTXR1) as the **receptor** for SVV using genome-wide loss-of-function screens. ANTXR1 is necessary for permissivity in vitro and in vivo. However, robust SVV replication requires an additional innate immune defect.

Anthrax toxin receptor 1 is the cellular receptor for ... 翻译此页

https://www.researchgate.net/publication/317951612_Anthrax_toxin_receptor_1_is_the...

The protein **Anthrax Toxin Receptor 1** (ANTXR1) has been identified as a potential **receptor** for SVA and shown to interact with the virus capsid during infection of human H446 **cancer** cells (17....

ANTXR1 Is a Prognostic Biomarker and Correlates ... 翻译此页

<https://pubmed.ncbi.nlm.nih.gov/33385012>

Stromal and immune cell infiltration in GC has a strong correlation with clinical outcomes; however, the underlying mechanisms that drive immunosuppression remain vastly undiscovered. Recent studies validated that **anthrax toxin receptor 1** (ANTXR1) is aberrantly expressed in several cancers and holds promise as a new **therapeutic target** for **cancer**.

Frontiers | ANTXR1 Is a Prognostic Biomarker and ... 翻译此页

<https://www.frontiersin.org/articles/10.3389/fmolb.2020.598221>

Gastric cancer (GC) is a complex and heterogeneous disease, making it difficult to ascertain the optimal **therapeutic** approach for individual GC patients. Stromal and immune cell infiltration in GC has a strong correlation with clinical outcomes; however, the underlying mechanisms that drive immunosuppression remain vastly undiscovered. Recent studies validated that **anthrax toxin receptor 1** ...

Novel Approaches to the Treatment of Systemic ... 翻译此页

<https://academic.oup.com/cid/article/54/8/1148/365187>

Systemic **anthrax**, defined as invasive *Bacillus anthracis* infection associated with bacterial dissemination or **toxin**-mediated multi-organ dysfunction, may be secondary to any of the well-described forms of clinical disease. Once a zoonotic disease of major economic importance, it was controlled in the developed world through widespread livestock vaccination [].

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Jan 24, 2020 · **Anthrax toxin receptor 1** (ANTXR1), a type I transmembrane protein, is one of the receptors that facilitates the entrance of anthrax toxin into cells. Previous studies have confirmed the pivotal role of ANTXR1 in progression and tumorigenesis of diverse cancer types. However, the biological function of **ANTXR1** in gastric cancer (GC) is still unknown.

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[84168 - Gene ResultANTXR1 ANTXR cell adhesion molecule 1 ...](#)

<https://www.ncbi.nlm.nih.gov/gene/84168>

Feb 16, 2021 · ANTXR1 ANTXR cell adhesion molecule 1 [(human)] inspection showed that MSLN (Mesothelin), **ANTXR1** (TEM8), and MUC3A are the probable targets of CAR T cell therapy in gastric adenocarcinoma. our findings suggested that ANTXR1 plays a crucial role in the development and progression of gastric cancer (GC) and could serve as a novel prognostic biomarker and potential ...

[\[PDF\] Anthrax toxin receptor 1/tumor endothelial marker 8 ...](#)

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/cas.14326>

Anthrax toxin receptor 1 (ANTXR1), a type I transmembrane protein, is one of the receptors that facilitates the entrance of anthrax toxin into cells. Previous studies have confirmed the pivotal role of ANTXR1 in progression and tumorigenesis of di-verse cancer types. However, the biological function of ANTXR1 in gastric cancer (GC) is still unknown.

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Jan 24, 2020 · Therefore, our findings provide further support for the hypothesis that ANTXR1 plays a vital role in the progression of GC and could be a novel diagnostic and **therapeutic target**. **Anthrax toxin receptor 1**, a 564 amino acid type I transmembrane protein, is known as one of the receptors that facilitate the entrance of anthrax toxin into cells. 13 Also known as TEM8, ANTXR1 specifically ...

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