

Fentanyl antibody [GT198]

Cat. No. GTX643513

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	Binding Assay, ELISA, Lateral Flow
Reactivity	Species independent

Package
100 µl, 25 µl

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
ELISA	Assay dependent
Lateral Flow	Assay dependent
Binding Assay	Assay dependent

Not tested in other applications.

Product Note Cross reactivity: Acetylfentanyl (97.2%), Carfentanil (23.8%), Norfentanyl (<1.27%)

Properties

Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml
Immunogen	The immunogen used to generate this antibody corresponds to Fentanyl.
Purification	Affinity purified by Protein A.
Conjugation	Unconjugated

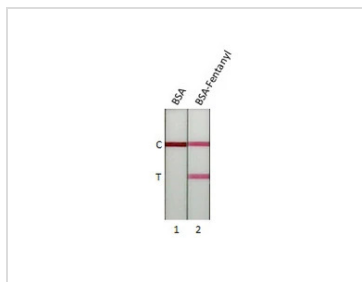
Note

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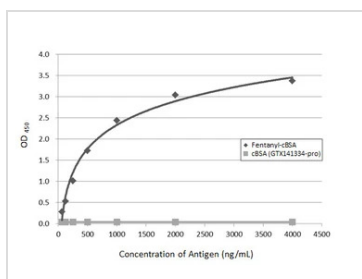
DATA IMAGES

GTX643513 Lateral Flow Image

Detection of Fentanyl by lateral flow assay using the monoclonal antibody.

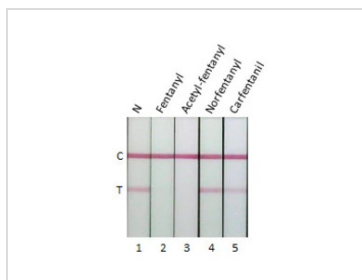
Detection: Fentanyl antibody [GT198] (GTX643513)

Coating antigen (0.5 µg) :

1. BSA
2. BSA-Fentanyl


GTX643513 ELISA Image

Indirect ELISA analysis was performed by coating the plate with recombinant Fentanyl-cBSA and cBSA (GTX141334-pro) (62.5-4000 ng/mL). Coated protein was probed with Fentanyl antibody [GT198] (GTX643513) (1 µg/mL). Goat anti-mouse IgG antibody (HRP) (GTX213111-01) (1:10000) was used to detect the bound primary antibody.

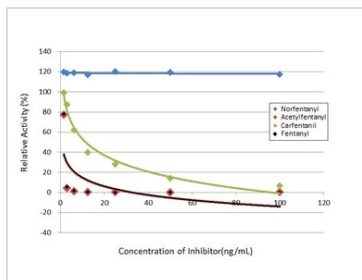

GTX643513 Lateral Flow Image

Inhibition analysis of immobilized Fentanyl-BSA binding to Fentanyl antibody [GT198] (GTX643513). Fentanyl antibody binding was inhibited by fentanyl, acetyl-fentanyl, norfentanyl and carfentanil.

Synonym	Norfentanyl	Acetyl-fentanyl	Carfentanil	Fentanyl
Formula Weight	232.3	358.9	394.5	372.9
CAS Number	1609-66-1	117332-89-5	59708-52-0	1443-54-5
Structure Formula				
Cross Reactivity (molar CR%)	<1.27% at 100 ng/mL	97.2%	23.8%	100%

GTX643513 ELISA Image

The assay utilizes a Fentanyl-cBSA conjugate as the coating antigen. Cross-reactivity was determined by the displacement of the Fentanyl antibody [GT198] (GTX643513) from the immobilized conjugate by the respective free fentanyl analogs.


GTX643513 Binding Assay Image

Inhibition analysis of immobilized Fentanyl-cBSA (coated at 0.75 µg/mL) binding to Fentanyl antibody [GT198] (GTX643513) (1 µg/mL). Fentanyl antibody binding was inhibited by increasing concentrations of Norfentanyl, Acetyl-fentanyl, Carfentanil and Fentanyl (0.78-100 ng/mL). Bound Fentanyl antibody was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).



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