

Fentanyl antibody [GT193]

Cat. No. GTX643470

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Applications	Binding Assay, ELISA
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
Binding Assay	Assay dependent

Not tested in other applications.

Product Note Cross reactivity: Acetylfentanyl (102%), Carfentanil (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 (Please refer to the vial label for the specific concentration.)
Immunogen	The immunogen used to generate this antibody corresponds to Fentanyl.
Purification	Affinity purified by Protein A.
Conjugation	Unconjugated

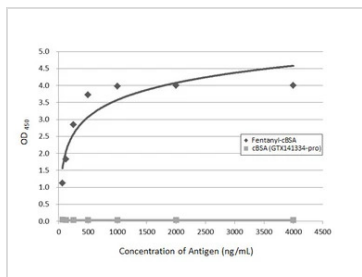
Note

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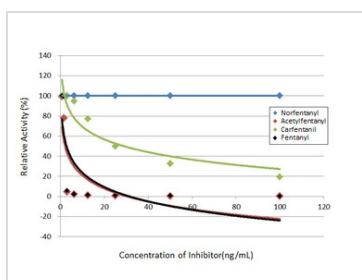
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DATA IMAGES

GTX643470 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 [GT193] (GTX643470) (1 µg/mL). Goat anti-mouse IgG antibody (HRP) (GTX213111-01) (1:10000) was used to detect the bound primary antibody.


GTX643470 Binding Assay Image

Inhibition analysis of immobilized Fentanyl-cBSA (coated at 0.75 µg/mL) binding to Fentanyl antibody [GT193] (GTX643470) (1 µg/mL). Fentanyl antibody binding was inhibited by increasing concentrations of Norfentanyl, Acetylfentanyl, Carfentanil and Fentanyl (0.78-100 ng/mL). Bound Fentanyl antibody was detected by Goat Anti-Mouse IgG antibody (HRP) (GTX213111-01) (1:10000).

Synonym	Norfentanyl	Acetylfentanyl	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	102%	8%	100%

GTX643470 ELISA Image

The assay utilizes a Fentanyl-cBSA conjugate as the coating antigen. Cross-reactivity was determined by the displacement of the Fentanyl antibody [GT193] (GTX643470) from the immobilized conjugate by the respective free fentanyl analogs.



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