

Datasheet for ABIN1048476

## anti-CXCR4 antibody (Cytoplasmic Domain)



[Go to Product page](#)

### 2 Images

#### Overview

Quantity:	50 µg
Target:	CXCR4
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Mouse, Rat, Monkey, Pig, Cow, Dog, Horse, Sheep, Hamster, Bat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCR4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Brand:	IHC-plus™
Immunogen:	<p>Synthetic 18 amino acid peptide from 1st cytoplasmic domain of human CXCR4. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Baboon, Monkey, Marmoset, Tamarin, Mouse, Rat, Sheep, Bat, Bovine, Dog, Cat, Hamster, Elephant, Panda, Horse, Pig, Opossum, Platypus, Lizard (100%), Turkey, Chicken (94%).</p> <p>Type of Immunogen: Synthetic peptide</p>
Specificity:	Human CXCR4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Baboon, Monkey, Marmoset, Tamarin, Mouse, Rat, Sheep, Bat, Bovine, Dog, Cat,

## Product Details

Hamster, Elephant, Panda, Horse, Pig, Opossum, Platypus, Lizard (100%) Turkey, Chicken (94%).

Purification: Immunoaffinity purified

## Target Details

Target: CXCR4

Alternative Name: CXCR4 ([CXCR4 Products](#))

Background: Name/Gene ID: CXCR4

Subfamily: Chemokine

Family: GPCR

Synonyms: CXCR4, CD184, CD184 antigen, Cmkar4, Cxc chemokine receptor 4, CXCR-4, CXCR4, D2S201E, FB22, Fusin, HM89, LCR1, NPY3R, NPYRL, NPY3R, Npyy3, HSY3RR, SDF-1 receptor, WHIM, C-x-c chemokine receptor 4, LESTR, Neuropeptide Y receptor Y3, NPYR

Gene ID: 7852

Pathways: [Regulation of Cell Size, CXCR4-mediated Signaling Events](#)

## Application Details

Application Notes: Approved: IHC, IHC-P (3.4 µg/mL)

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

### Tissue Preparation

Formalin fixation and embedding in paraffin wax

### Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

### Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

**Antigen retrieval**

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

**Immunostaining**

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

**Dehydrate**

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

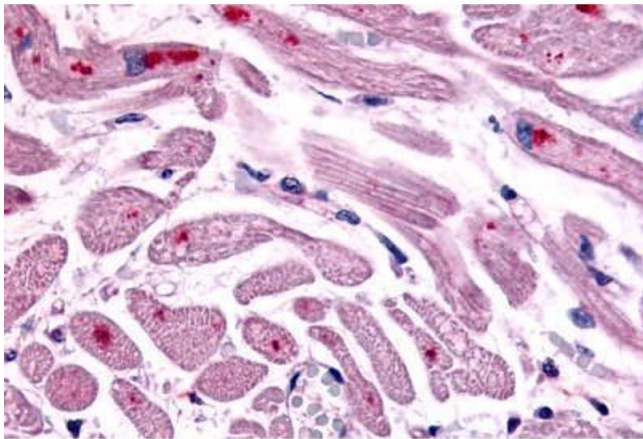
Apply coverslip

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific

Handling

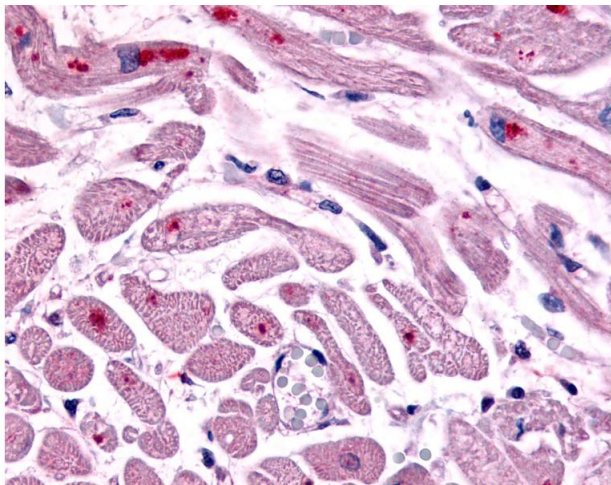
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

**Image 1.** Anti-CXCR4 antibody ABIN1048476 IHC staining of human heart. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

**Image 2.** Anti-CXCR4 antibody IHC of human heart. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.