# Product Datasheet

## Chemotherapy Insensitive Tumor Cells Antibody Pack
## NBP1-78942

Unit Size: 4 Vials

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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www.novusbio.com/NBP1-78942

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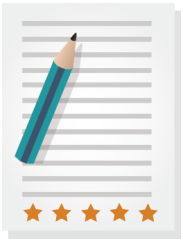

# NBP1-78942

Chemotherapy Insensitive Tumor Cells Antibody Pack

## Product Information

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| **Unit Size** | 4 Vials |
| **Concentration** | Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services. |
| **Storage** | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| **Buffer** | See individual datasheets. |

## Product Description

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| **Description** | This pack contains 1 vial each of: NB100-74396 (25 uL), NB110-60547 (25 uL), NB100-417 (25 uL) and NB110-78626 (25 uL). |
| **Species** | Human |
| **Reactivity Notes** | Human, however additional species may be possible for individual products. |
| **Specificity/Sensitivity** | This Chemotherapy Insensitive Tumor Cells Antibodies Sample Pack includes antibodies to Stromal Interaction Molecule 1, CAIX, LMO2 and CXCR4. |
| **Immunogen** | See individual datasheets. |
| **Kit Components** | NB110-78626: LMO2 Antibody (1A9-3B11) - BSA Free, NB110-60547: STIM1 Antibody - BSA Free, NB100-74396: CXCR4 Antibody, NB100-417: Carbonic Anhydrase IX/CA9 Antibody - BSA Free |

## Product Application Details

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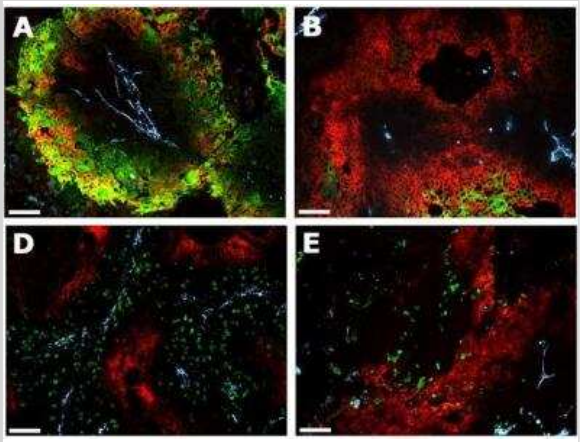
| **Applications** | Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry |
| **Recommended Dilutions** | Western Blot, Immunohistochemistry, Immunocytochemistry/Immunofluorescence |
| **Application Notes** | Mainly Immunofluorescence and Western blot, however additional applications may be possible for individual products. See individual datasheets for validated applications. |

## Images

Immunohistochemistry: Chemotherapy Insensitive Tumor Cells Antibody Pack [NBP1-78942] - Images showing Carbonic Anhydrase IX/CA9 expression, pimonidazole, apoptosis and proliferation in SCCNij202.Carbonic Anhydrase IX/CA9 is expressed in hypoxic regions as assessed by pimonidazole staining (A), but is also observed in non-pimonidazole areas (B). Yet, most of Carbonic Anhydrase IX/CA9 is expressed in pimonidazole positive regions (C). Green, pimonidazole (A-B), BrdUrd (D) or caspase-3 (E); Yellow, overlap of Carbonic Anhydrase IX/CA9 (red) and pimonidazole (green); Light blue, vessels. Scale bars represent 100 um. Closed circles represent Carbonic Anhydrase IX/CA9 expression in pimonidazole positive regions; open circles represent Carbonic Anhydrase IX/CA9 expression in pimonidazole negative regions. Image collected and cropped by CiteAb from the following publication (//dx.plos.org/10.1371/journal.pone.0108068), licensed under a CC-BY license. Anti-CA9 Antibody (NB100-417)



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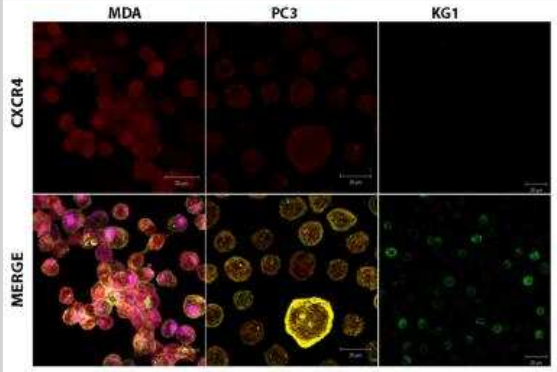
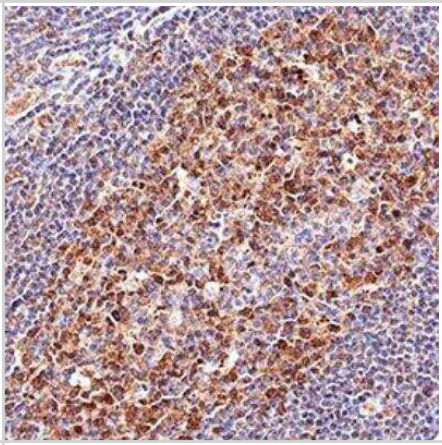
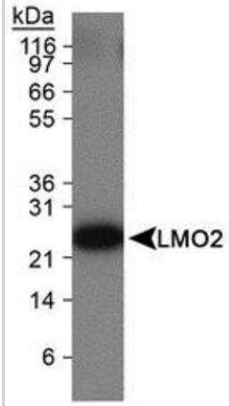
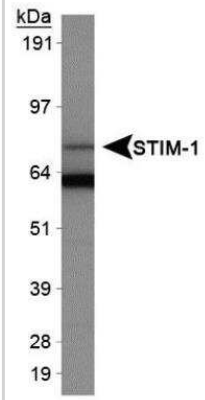
| Immunocytochemistry/Immunofluorescence: Chemotherapy Insensitive Tumor Cells Antibody Pack [NBP1-78942] - Optimization of immunofluorescence staining of CXCR4 protein. Cells were seeded onto cell-tak coated 48 mm coverslips in a 48-well plate. Cells were fixed with 2% formaldehyde for 20 min, washed with PBS. After fixation, cells were blocked with 2.0% BSA in PBS for 1 h at room temperature. All the cells were incubated with a primary antibody for anti-rabbit CXCR4 for 1 h. After washing with PBS, cells were put in respective secondary antibodies-anti-rabbit dylight 405 for 1 h. PSMA= Magenta, EpCAM= Yellow, sLex= Green, CXCR4= Red, and Merge shows all the colors. MDA=PSMA+, EpCAM+, sLex+, CXCR4+. PC3 = PSMA-, EpCAM+, sLex-, CXCR4+. KG1 = PSMA-, EpCAM-, sLex+, CXCR4-. Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0085143) licensed under a CC-BY license. Anti-CXCR4 antibody (NB100-74396) |  |
| Immunohistochemistry: Chemotherapy Insensitive Tumor Cells Antibody Pack [NBP1-78942] - IHC analysis of formalin fixed paraffin-embedded (FFPE) human tonsil using LMO2 antibody (NB110-78626) at 1:500 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Nuclear with some cytoplasmic staining was observed. Staining was performed by Histowiz. |  |
| Western Blot: Chemotherapy Insensitive Tumor Cells Antibody Pack [NBP1-78942] - 4vials [NBP1-78942] - Detection of LMO2 in Ramos cell lysate using NB110-78626. |  |
| Western Blot: Chemotherapy Insensitive Tumor Cells Antibody Pack [NBP1-78942] - Detection of STIM1 in HeLa whole cell extracts using NB110-60547. |  |

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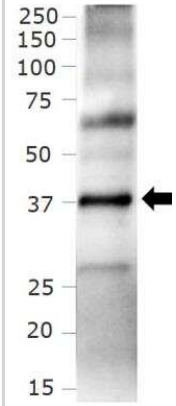
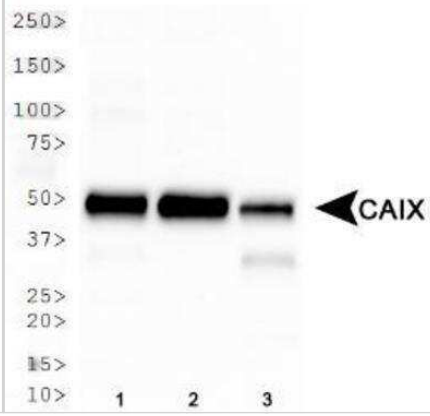
| Western Blot: Chemotherapy Insensitive Tumor Cells Antibody Pack [NBP1-78942] - Analysis of CXCR4 protein in human small intestine tissue lysate using 1:500 dilution of rabbit polyclonal CXCR4 antibody (NB100-74396). The signal was developed using ECL method and the antibody generated a specific band of CXCR4 at ~40 kDa position. |  |
| Western Blot: Chemotherapy Insensitive Tumor Cells Antibody Pack [NBP1-78942] - Analysis in 1) HeLa, 2) MDA-MB-231, and 3) A549 whole cell lysates. Specific bands were detected for Carbonic Anhydrase IX/CA9 using NB100-417 at a molecular weight of 50 kDa. |  |

**Novus Biologicals USA**
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

**Bio-Techne Canada**
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

**Bio-Techne Ltd**
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

**General Contact Information**
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

**Limitations**
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Antibody Packs are guaranteed for 1 year from date of receipt.

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