Product Datasheet

HIF-1 alpha Antibody Pack
NB100-901IHC

Unit Size: 4 Vials
Store at 4C. Do not freeze.

Publications: 5
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Updated 9/8/2019 v.20.1

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# NB100-901IHC
## HIF-1 alpha Antibody Pack

### Product Information

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>4 Vials</th>
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<tbody>
<tr>
<td>Concentration</td>
<td>Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C. Do not freeze.</td>
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### Product Description

<table>
<thead>
<tr>
<th>Gene ID</th>
<th>3091</th>
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<tbody>
<tr>
<td>Gene Symbol</td>
<td>HIF1A</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Specificity/Sensitivity</td>
<td>These antibodies are specific for HIF-1alpha.</td>
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| Immunogen | NB 100-131: Human HIF-1 alpha amino acids 329-530. NB100-123: Fusion protein containing amino acids 432-528 of human HIF-1alpha. NB100-449: peptide between residues 775 and the C-terminus (residue 826) of human HIF-1 alpha NB100-479: A fusion protein |
| Kit Components | NB100-131SS, NB100-123SS, NB100-449SS, NB100-479SS |
| Notes | 1 sample size vial each of: NB100-479 (0.025mL), NB100-449 (0.025mL), NB100-123 (0.05mL) and NB100-131 (0.05mL). |

### Product Application Details

| Applications | Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation |
| Recommended Dilutions | Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen |

| Application Notes | Immunohistochemical staining of paraffin-embedded and frozen sections (only NB 100-131 has been used on frozen sections). Antigen retrieval is strongly recommended. With the exception of NB100-449 and NB100-479 (which are also recommended for Western Blot), these antibodies work for Western blot analysis but are not specifically recommended for this application. A starting dilution of 1:1,000 is recommended with titration up or down depending upon the signal and background. |

### Images

Western Blot: HIF-1 alpha Antibody Pack [NB100-901IHC] - Detection of HIF-1 alpha in cobalt chloride treated/untreated COS-7 nuclear extracts.
Western Blot: HIF-1 alpha Antibody Pack [NB100-901IHC] - On day 1, MEF cells (+/+,-/-), were grown on 15cm dish (2x10 to the 6th cells). On day 2, cells were exposed to hypoxia for 4hrs. Cells were washed with ice cold PBS twice and whole cell protein was extracted with RIPA buffer fortified with protease. Upon quantification, 100ug of protein was fractionated on 7% polyacrylzyme gel. -Gel was transferred overnight onto nitrocellulose membrane. The membrane was probed with HIF-1 alpha monoclonal antibody at a 1:500 dilution (NB 100-123). The secondary antibody was conjugated with HRP and was used at a 1:2500 dilution. Photo courtesy of Dr. Gregg Semenza, Johns Hopkins University.

Western Blot: HIF-1 alpha Antibody Pack [NB100-901IHC] - Detection of HIF-1 alpha in a hypoxic sample. Lane 1: CoCl2 treated Cos-7 nuclear extract (hypoxic). Lane 2: Untreated Cos-7 nuclear extract (normoxic) NB100-449.

Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody Pack [NB100-901IHC] - Detection of HIF-1 alpha (red dye 568) in a cultured raw mouse macrophage cell line, using NB100-131. 100X magnification. Photos courtesy of Susan Alexander and Hattie Gresham, PhD.

Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-901IHC] - Staining of placenta, villi using.
Flow Cytometry: HIF-1 alpha Antibody Pack [NB100-901IHC] - Analysis of HIF1-alpha in CoCl2 Treated vs. Untreated HeLa Cells. Hela cells were treated for 15 hrs with 200uM CoCl2, fixed in PFA, and permeabilized in 90% MeOH. One million cells were stained with 0.125ug of NB100-449 and secondary FITC-conjugated goat anti-rabbit (in a 150ul reaction). Black- treated, anti-KLH control IgG; Reduntreated, anti-HIF1-alpha; Blue- treated, anti-HIF1-alpha.

Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody Pack [NB100-901IHC] - Detection of HIF-1 alpha (red dye) in a cell cytospin from a lavage of a murine skin pouch infected with Staph Aureus, using NB100-131. Blue dye is DAPI nuclear staining. Photos courtesy of Susan Alexander and Hattie Gresham, PhD.

Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody Pack [NB100-901IHC] - Detection of HIF-1 alpha (red dye) in a cell cytospin from a lavage of a murine skin pouch infected with Staph Aureus, using NB100-131. 100X magnification. Blue dye is DAPI nuclear staining. Photos courtesy of Susan Alexander and Hattie Gresham, PhD.

Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody Pack [NB100-901IHC] - Detection of HIF-1 alpha (red dye 568) in a cultured raw mouse macrophage cell line. Photos courtesy of Susan Alexander and Hattie Gresham, PhD.
Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-901IHC] - Staining of HIF-1 alpha in human kidney.

Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-901IHC] - Staining in hypoxia-induced human placenta.

Immunohistochemistry-Paraffin: HIF-1 alpha Antibody Pack [NB100-901IHC] - Negative control stain of human placenta (from sea level) using mouse IgG at 1:100. 4uM paraffin-embedded section.

Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-901IHC] - Staining of mouse brain, neurons using NB100-449.
Immunoprecipitation: HIF-1 alpha Antibody Pack [NB100-901IHC] -
Immunoprecipitation of HIF-1alpha using NB100-123. Heavy and light
chains are also detected.

Publications


Higami, Y et al. Energy restriction lowers the expression of genes linked to inflammation, the cytoskeleton, the extracellular matrix, and angiogenesis in mouse adipose tissue. J Nutr;136(2):343-52. 2006 Feb. [PMID: 16424110]


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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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