Product Datasheet

HIF-1 alpha Antibody Pack
NB100-905

Unit Size: 5 Vials

Store at 4C. Do not freeze.

Reviews: 2  Publications: 4

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Updated 9/8/2019 v.20.1

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### NB100-905

**HIF-1 alpha Antibody Pack**

#### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>5 Vials</th>
</tr>
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<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C. Do not freeze.</td>
</tr>
</tbody>
</table>

#### Product Description

<table>
<thead>
<tr>
<th><strong>Gene ID</strong></th>
<th>3091</th>
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</thead>
<tbody>
<tr>
<td><strong>Gene Symbol</strong></td>
<td>HIF1A</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human, Mouse</td>
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</table>

**Reactivity Notes**

- NB 100-654 recognizes human, mouse and rat. NB 100-105 recognizes human, sheep, mouse, rat, porcine, rabbit, bovine and ferret HIF-1 alpha. NB 100-131 recognizes human, mouse and rat HIF-1 alpha. NB 100-449 recognizes human and mouse HIF-1 alpha. Preliminary results with mouse tissue have been positive for IHC using mouse eye sections at 1:100 with high pH retrieval. NB 100-479 recognizes human and mouse HIF-1 alpha.

**Specificity/Sensitivity**

These antibodies are specific for HIF-1alpha.

**Immunogen**

- NB 100-654 = Human HIF-1 alpha amino acids 432-528
- NB 100-105 = Human HIF-1 alpha amino acids 432-528
- NB 100-131 = Human HIF-1 alpha amino acids 329-530
- NB 100-449 = Human HIF-1 alpha amino acids 775-826
- NB 100-479 = Mouse HIF-1 alpha amino acids

**Kit Components**

- NB100-479: HIF-1 alpha Antibody
- NB100-449: HIF-1 alpha Antibody
- NB100-131: HIF-1 alpha Antibody (ESEE122)
- NB100-105: HIF-1 alpha Antibody (H1alpha67)
- NB100-654: HIF-1 alpha Antibody

**Notes**

1 vial each of: NB100-654SS (0.025ml), NB100-479SS (0.025ml), NB100-449SS (0.025ml), NB100-105 (0.05mL) and NB100-131 (0.05mL).

#### Product Application Details

**Applications**

- Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation

**Recommended Dilutions**

- Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry, Immunohistochemistry/Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen

**Application Notes**

Western Blot: All antibodies included in this pack will work for Western analysis, except for NB100-131, which has mixed results for Western analysis. A starting dilution of 1:1,000 is recommended with titration up or down depending upon the signal and background. Immunohistochemistry: Both positive and negative feedback have been provided on all antibodies included in this pack. A starting dilution of 1:250 is recommended with titration up or down depending upon the signal and background.
### Images

**Western Blot: HIF-1 alpha Antibody Pack [NB100-905]** - Detection of HIF-1 alpha in a hypoxic sample. Lane 1: CoCl2 treated Cos-7 nuclear extract (50 ug, hypoxic). Lane 2: Untreated Cos-7 nuclear extract (50 ug, normoxic). 10 second ECL exposure. NB100-479.

![Western Blot Image](image1.png)

**Western Blot: HIF-1 alpha Antibody Pack [NB100-905]** - Analysis of 50ug cobalt chloride induced COS-7 nuclear extracts (NB800-PC26) using NB100-105.

![Western Blot Image](image2.png)

**Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody Pack [NB100-905]** - 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.

![Immunocytochemistry Image](image3.png)

**Immunohistochemistry-Paraffin: HIF-1 alpha Antibody Pack [NB100-905]** - Negative control stain of human placenta (from sea level) using mouse IgG at 1:100. 4uM paraffin-embedded section.

![Immunohistochemistry Image](image4.png)
Flow Cytometry: HIF-1 alpha Antibody Pack [NB100-905] - 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.

Western Blot: HIF-1 alpha Antibody Pack [NB100-905] - Detection of HIF-1 alpha in Cobalt Chloride treated/untreated Cos-7 nuclear extracts using NB100-654.

Western Blot: HIF-1 alpha Antibody Pack [NB100-905] - 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).

Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody Pack [NB100-905] - Detection of HIF-1 alpha (red dye) in a cell cytopin 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 [NB100-905] - Detection of HIF-1 alpha (red dye 568) in a cultured raw mouse macrophage cell line, using NB100-131. Photos courtesy of Susan Alexander and Hattie Gresham, PhD

Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-905] - Staining of placenta, villi using NB100-479.
Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-905] - Immunohistochemical staining of human glioblastoma multiforme utilizing NB100-105.

Immunohistochemistry: HIF-1 alpha Antibody Pack [NB100-905] - HIF-1 Alpha staining in hypoxia-induced human placenta using NB 100-131.

**Publications**

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<th>Study</th>
<th>Details</th>
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www.novusbio.com  technical@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.

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

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-905

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications

Products Related to NB100-905

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<tr>
<th>Product Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>H00003091-P01-10ug</td>
<td>Recombinant Human HIF-1 alpha Protein</td>
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<tr>
<td>NB100-105</td>
<td>HIF-1 alpha Antibody (H1alpha67)</td>
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<tr>
<td>NB100-479</td>
<td>HIF-1 alpha Antibody</td>
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<tr>
<td>NB100-122</td>
<td>HIF-2 alpha/EPAS1 Antibody</td>
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