

# Product Datasheet

## HIF-1 alpha Antibody (2443C) - BSA Free NBP2-75978

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-75978**

HIF-1 alpha Antibody (2443C) - BSA Free

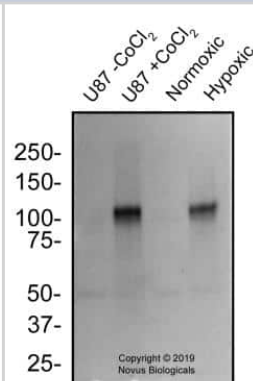
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2443C
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Protein A or G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	3091
Gene Symbol	HIF1A
Species	Human
Immunogen	This recombinant HIF-1 alpha Antibody (2443C) was developed against partial recombinant human HIF-1 alpha protein (amino acids 1-826) [Uniprot# Q16665].

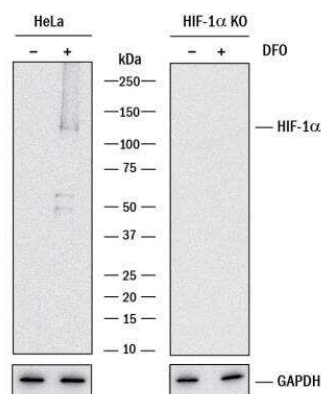
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Simple Western, Immunohistochemistry 1 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1 ug/ml, Knockout Validated
Application Notes	See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: tested in HepG2 +/- DFO cell lysate; separated by size; antibody dilution at 20 ug/ml

**Images**

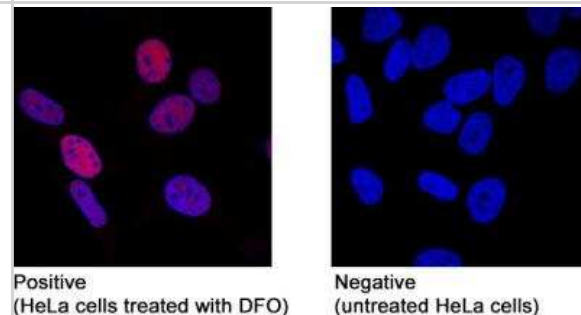
Western Blot: HIF-1 alpha Antibody (2443C) [NBP2-75978] - Total protein from Human U87 cells treated with or without CoCl<sub>2</sub> and under Normoxic and Hypoxic conditions was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-HIF-1 alpha in 5% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



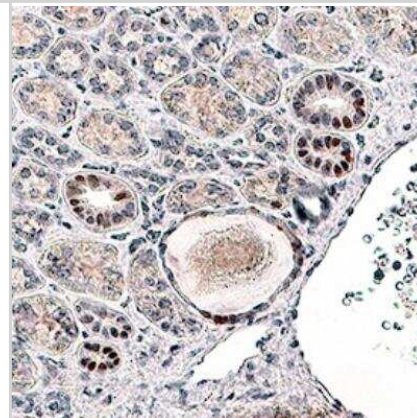
**Knockout Validated: HIF-1 alpha Antibody (2443C) [NBP2-75978]** - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and HIF-1 alpha knockout HeLa cell line (KO) untreated (-) or treated (+) with 1 mM DFO for overnight. PVDF membrane was probed with 2 ug/mL of Rabbit Anti-Human HIF-1 alpha Monoclonal Antibody (Catalog # NBP2-75978) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for HIF-1 alpha at approximately 120 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # MAB5718) is shown as a loading control.



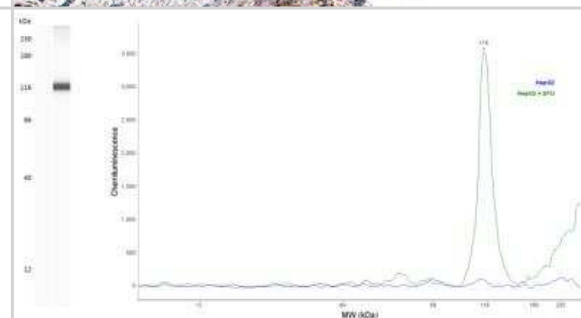
**Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody (2443C) [NBP2-75978]** - Immunofluorescent staining of HIF-1 alpha using catalog number NBP2-75977 (clone 2443B). Staining was observed in HeLa cells treated with DFO but not in untreated HeLa cells.



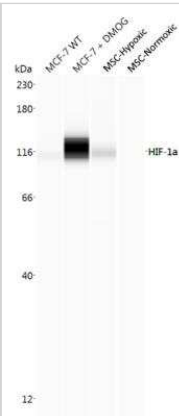
**Immunohistochemistry-Paraffin: HIF-1 alpha Antibody (2443C) [NBP2-75978]** - HIF-1 alpha (clone 2443C) was detected in immersion fixed paraffin-embedded sections of human kidney using Rabbit Anti-Human HIF-1 alpha Monoclonal Antibody (Catalog # NBP2-75978) at 1.0 ug/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte (TM) HRP Polymer Antibody (Catalog # VC002). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nuclei.



**Simple Western: HIF-1 alpha Antibody (2443C) [NBP2-75978]** - Lane view shows a specific band for HIF-1 alpha in HepG2 +/- DFO cell lysate using 20 ug/mL. Electropherogram image of corresponding Simple Western lane view at WES molecular weight of 116 KDa. Image from an internal validation.



Simple Western: HIF-1 alpha Antibody (2443C) [NBP2-75978] - Simple Western lane view shows lysates of MCF +/- DMOG, BioSpherix MSCs in hypoxic conditions, and BioSpherix MSCs in normoxic conditions loaded at 0.5 mg/ml. A band was detected for HIF-1 alpha at approximately 116 kDa (as indicated) using NBP2-75978 (1:100 dilution) followed by Anti-Rabbit Secondary Antibody (042-206, ProteinSimple). This experiment was conducted under standard assay conditions, and using the 12-230 kDa separation module (SW-W004). Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody. Image from an internal validation.



## Publications

Gao Y, Chen MK, Chu YY et al. Nuclear translocation of the receptor tyrosine kinase c-MET reduces the treatment efficacies of olaparib and gemcitabine in pancreatic ductal adenocarcinoma cells American journal of cancer research 2021-01-01 [PMID: 33520371] (WB, Human)



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### **Products Related to NBP2-75978**

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NBP3-11826	HIF-1 alpha Knockout CoCl <sub>2</sub> -treated/untreated HeLa Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

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

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