

# Product Datasheet

## IGFBP-4 Antibody - BSA Free

### NBP1-80549

Unit Size: 100 ul

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

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Updated 2/21/2025 v.20.1

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**NBP1-80549**

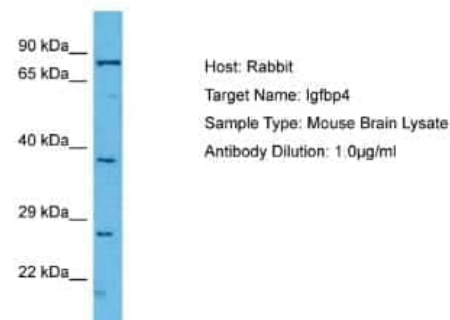
IGFBP-4 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	28 kDa
Product Description	
Description	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
Host	Rabbit
Gene ID	3487
Gene Symbol	IGFBP4
Species	Human, Mouse
Immunogen	Synthetic peptide directed towards the middle region of human IGFBP4. Peptide sequence RALERLAASQSRTHELDLYIIPNCDRNGNFHPKQCHPALDGQRGKCWCV. The peptide sequence for this immunogen was taken from within the described region.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1.0 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen
Application Notes	Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 26305333).

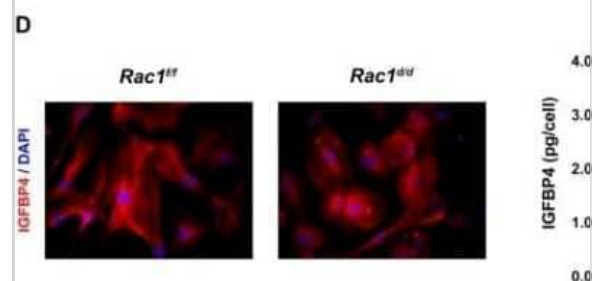


## Images

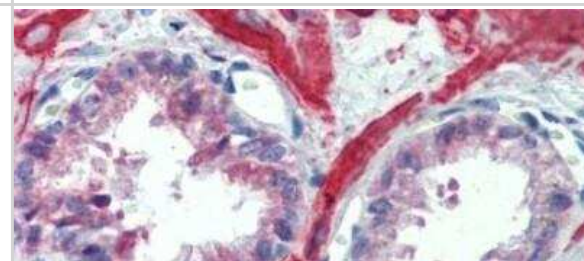
Western Blot: IGFBP-4 Antibody [NBP1-80549] - Host: Mouse. Target Name: IGFBP4. Sample Tissue: Mouse Brain. Antibody Dilution: 1ug/ml



Immunocytochemistry/Immunofluorescence: IGFBP-4 Antibody [NBP1-80549] - Rac1 regulates vesicular exocytosis in decidual cells by controlling Rab27b. Secretions by decidual cells are reduced in the conditioned media of Rac1-null stromal cells. Stromal cells isolated from Rac1f/f and Rac1d/d uteri on day 4 of pregnancy were cultured for 96 hours, fixed and subjected to IF using IGFBP4 (Left) antibody. Conditioned media from cultured stromal cells isolated from Rac1f/f and Rac1d/d uteri were analyzed for IGFBP4 (Right) by ELISA. Data represent mean  $\pm$  SEM from three separate samples and were analyzed by two-way ANOVA with Bonferroni post-test. Asterisks indicate statistically significant differences (\* $P < 0.05$ , \*\* $P < 0.01$ , and \*\*\* $P < 0.001$ ). Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pgen.1005458>), licensed under a CC-BY license.



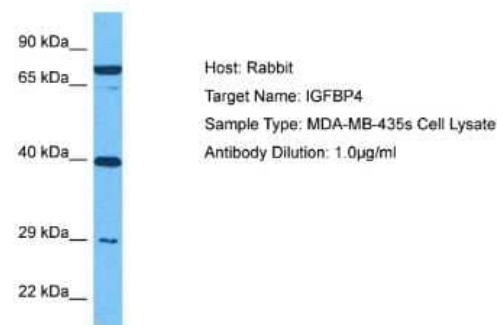
Immunohistochemistry-Paraffin: IGFBP-4 Antibody [NBP1-80549] - Human Prostate Tissue, 5.0ug/ml.



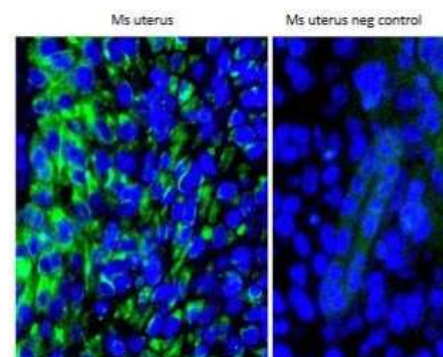
Western Blot: IGFBP-4 Antibody [NBP1-80549] - Human Fetal Brain Lysate, concentration 1 ug/ml.



Western Blot: IGFBP-4 Antibody [NBP1-80549] - Host: Rabbit. Target Name: IGFBP4. Sample Tissue: Human MDA-MB-435s Whole Cell. Antibody Dilution: 1ug/ml



Immunocytochemistry/Immunofluorescence: IGFBP-4 Antibody [NBP1-80549] - Mouse uterus stained with at a dilution of 1:1000. HIER is applied using citrate buffer pH6. Image from verified customer review.



## Publications

Kannan A, Beal JR, Neff AM et al. Runx1 regulates critical factors that control uterine angiogenesis and trophoblast differentiation during placental development PNAS Nexus 2023-07-03 [PMID: 37416873] (Immunohistochemistry)

Davila J, Laws MJ, Kannan A et al. Rac1 Regulates Endometrial Secretory Function to Control Placental Development. PLoS Genet. 2015-08-01 [PMID: 26305333] (IHC-Fr, Mouse)



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### **Products Related to NBP1-80549**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-61376-1mg	Recombinant Human IGFBP-4 Protein

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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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