

# Product Datasheet

## Mer [p Tyr754, p Tyr749, p Tyr753] Antibody NB300-690-0.05mg

Unit Size: 0.05 mg

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB300-690](http://www.novusbio.com/NB300-690)

Updated 9/9/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NB300-690](http://www.novusbio.com/reviews/destination/NB300-690)



**NB300-690-0.05mg**

Mer [p Tyr754, p Tyr749, p Tyr753] Antibody

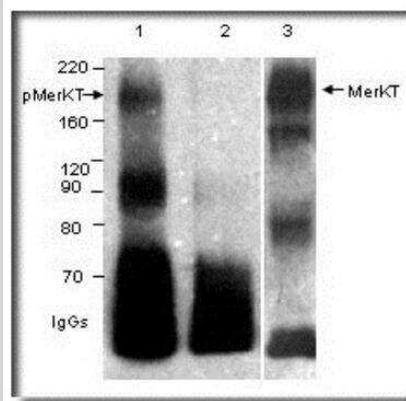
Product Information	
Unit Size	0.05 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris/Glycine buffer, pH 7.4-7.8, HEPES,BSA 0.5%, glycerol 30%.
Target Molecular Weight	180 kDa

Product Description	
Description	Novus Biologicals Rabbit Mer [p Tyr754, p Tyr749, p Tyr753] Antibody (NB300-690) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-Mer Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	10461
Gene Symbol	MERTK
Species	Human, Mouse, Rat, Monkey
Specificity/Sensitivity	MERTK [Tyr749/Tyr753/Tyr754]
Immunogen	Synthetic peptide: corresponding to amino acids 746-757 (CKKIYSGDYRQG-amide) [p Y749, p Y753, p Y754] of Human MERTK.

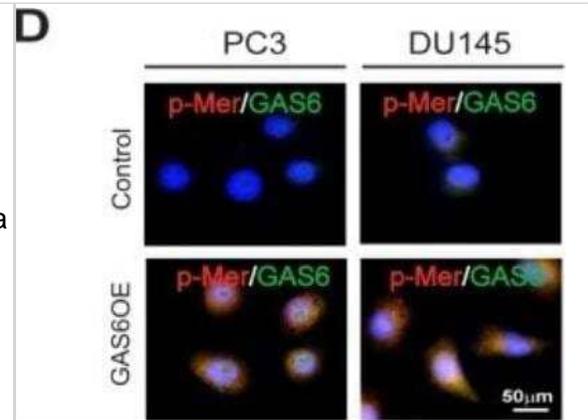
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:750, Flow Cytometry 1:250, ELISA 1:10000, Immunohistochemistry 1:250, Immunocytochemistry/ Immunofluorescence 1:250

**Images**

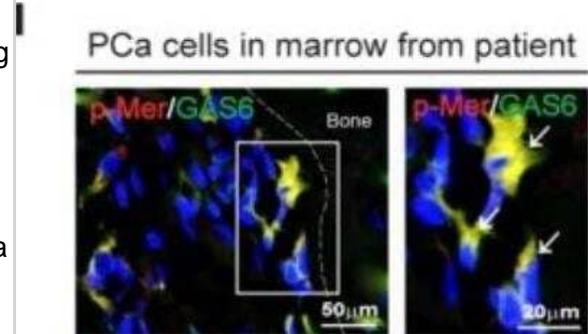
Western Blot: Mer [p Tyr749, p Tyr753] Antibody [NB300-690] - Phospho & non-Phospho-MerTK with Phospho-MERTK Antibody (NB300-690). Phosphorylated (1) & un-phosphorylated (2, 3) MERTK was immunoprecipitated with MERTK and blotted with Phospho-MerTK antibody (NB300-690). MW of MERTK is 174 kDa. Lower broad band is of IgGs in the immunoprecipitates.



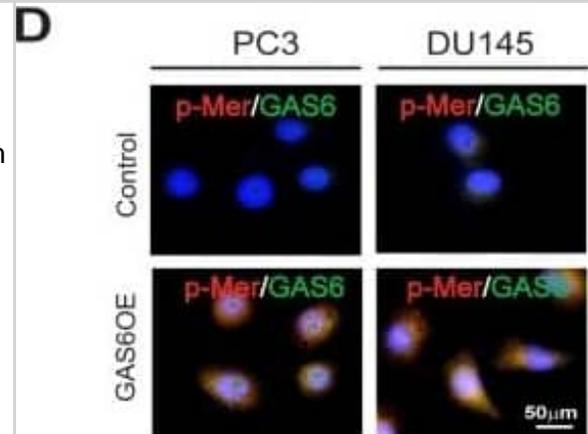
Immunocytochemistry/Immunofluorescence: Mer [p Tyr754, p Tyr749, p Tyr753] Antibody [NB300-690] - PCaControl cells or PCaGAS6OE cells were starved for 24 hours and then exposed to 10% FBS of culture condition for 1 hour and phosphorylation of Mer was evaluated by (D) immunofluorescence staining. Bar = 50  $\mu$ m. Image collected and cropped by CiteAb from the following publication ([oncotarget.com/lookup/doi/10.18632/oncotarget.8365](https://oncotarget.com/lookup/doi/10.18632/oncotarget.8365)), licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: Mer [p Tyr754, p Tyr749, p Tyr753] Antibody [NB300-690] - Left panel: Immunofluorescence staining of p-Mer (red)/GAS6 (green) in PCa cells in bone marrow of a PCa patient. Blue, DAPI nuclearstain. Bar = 50  $\mu$ m. Right panel: p-Mer (red)/GAS6 (green) positive cells (white arrows) in the magnification of the white rectangle from left panel. Bar = 20  $\mu$ m. Image collected and cropped by CiteAb from the following publication ([oncotarget.com/lookup/doi/10.18632/oncotarget.8365](https://oncotarget.com/lookup/doi/10.18632/oncotarget.8365)), licensed under a CC-BY license.

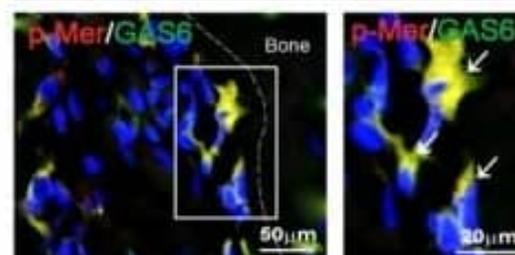


GAS6 overexpression activates the phosphorylation of Mer signaling in prostate epithelial cells or cancer cells(A) GAS6 mRNA expression as quantified by by real-time PCR in PCaControl cells or PCaGAS6OE cells. (B) GAS6 protein as quantified by ELISA in PCaControl cells or PCaGAS6OE cells. Data in Figure 4A, B are representative of mean with s.d. (Student's t-test). (C, D). PCaControl cells or PCaGAS6OE cells were starved for 24 hours and then exposed to 10% FBS of culture condition for 1 hour and phosphorylation of Mer was evaluated by (C) Western blot or (D) immunofluorescence staining. Bar = 50  $\mu$ m. (E, F) GAS6 and Mer mRNA expression in the PrEPGAS6<sup>+/+</sup> cells or PrEPGAS6<sup>-/-</sup> cells by real-time PCR. (G) Mer (red)/GAS6 (green) or p-Mer (red)/GAS6 (green) in the PrEPGAS6<sup>+/+</sup> cells or PrEPGAS6<sup>-/-</sup> cells was evaluated by immunofluorescence staining. Bar = 50  $\mu$ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/27028863>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



GAS6 overexpression increases CSCs through activation of Mer signaling in PCa cells(A, B) Percent of cells expressing the CSC phenotype in coculture of PCaControl or PCaGAS6OE with osteoblasts as quantified by FACS analysis. Data in Figure 5A, 5B are representative of mean with s.d. (Student's t-test). (C) The sphere formation of PCaControl cells or PCaGAS6OE cells in suspended sphere culture conditions following the treatment with a Mer inhibitor, UNC1062. Bar = 50  $\mu$ m. (D) Quantification of prostatospheres in suspended sphere culture condition. \*Denotes  $p < 0.05$  between vehicle vs. a Mer inhibitor, UNC1062 treatments by Student's t-test. (E, F) MTT assays of PCaControl cells or PCaGAS6OE following the treatment with a Mer inhibitor, UNC1062 at 3 day cultures in adherent culture conditions. N.S. denotes no significance ( $p > 0.05$ ) between vehicle vs. a Mer inhibitor, UNC1062 treatments by Student's t-test. (G, H) % CSC from DTC population in bone marrow at 24 hours after intracardiac injection of PCaControl cells or PCaGAS6OE in SCID mice ( $n = 5$ ) as quantified by FACS analysis. Data are representative of mean with s.d. (Student's t-test). (I) Left panel: Immunofluorescence staining of p-Mer (red)/GAS6 (green) in PCa cells in bone marrow of a PCa patient. Blue, DAPI nuclearstain. Bar = 50  $\mu$ m. Right panel: p-Mer (red)/GAS6 (green) positive cells (white arrows) in the magnification of the white rectangle from left panel. Bar = 20  $\mu$ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/27028863>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

### PCa cells in marrow from patient



## Publications

Chang L, Chin Y, Wu P et al. Polymeric nano-formulation of spectrum selective RTK inhibitor strengthens anti-cancer effects via immune remodeling by endoplasmic reticulum stress-modulating mitochondrial metabolism Nano Today 2024-02-01 (WB, Mouse)

Yefimova, M G, LefEvre, C Et al. Granulosa cells provide elimination of apoptotic oocytes through unconventional autophagy-assisted phagocytosis. Hum Reprod 2020-06-01 [PMID: 32531067] (WB, Mouse)

Du W, Huang H, Sorrelle N, Brekken RA. Sitravatinib potentiates immune checkpoint blockade in refractory cancer models. JCI Insight. 2018-11-02 [PMID: 30385724] (WB, Mouse)

A-Gonzalez Noelia, Bensinger Steven J, Hong Cynthia et al. Apoptotic cells promote their own clearance and immune tolerance through activation of the nuclear receptor LXR. Immunity 2009-01-01 [PMID: 19646905] (WB, Mouse)

Jung Y, Decker AM, Wang J et al. Endogenous GAS6 and Mer receptor signaling regulate prostate cancer stem cells in bone marrow. Oncotarget 2016-05-03 [PMID: 27028863]



### **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

### **Products Related to NB300-690-0.05mg**

---

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

---

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NB300-690](http://www.novusbio.com/reviews/submit/NB300-690)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

