

Product Datasheet

Calcium-sensing R/CaSR Antibody (HL 1499) - BSA Free NB100-1830

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NB100-1830

Calcium-sensing R/CaSR Antibody (HL 1499) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HL 1499
Preservative	0.02% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	130 kDa

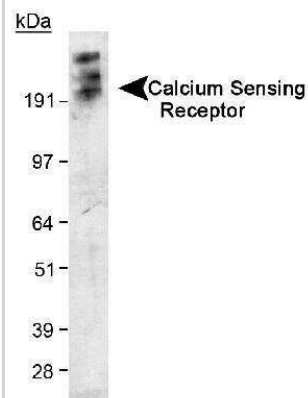
Product Description	
Host	Mouse
Gene ID	846
Gene Symbol	CASR
Species	Human, Mouse, Rat, Rabbit
Immunogen	N-terminal region of human Calcium Sensing Receptor. [UniProt# P41180]

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunoprecipitation, Radioimmunoassay
Recommended Dilutions	Western Blot 1:50 - 1:200, Simple Western 1:200, Flow Cytometry reported in scientific literature (PMID 33830943), ELISA 1:100 - 1:2000, Immunoprecipitation 5 - 10 ug, Radioimmunoassay
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

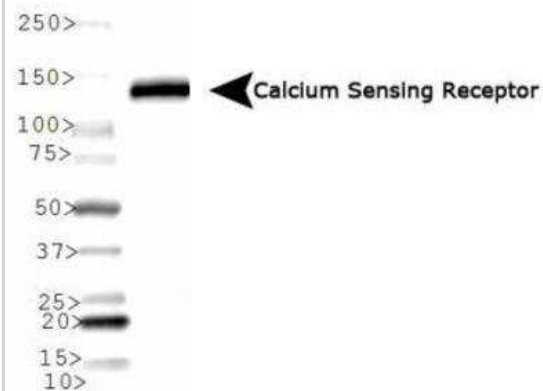


Images

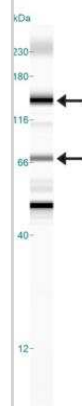
Western Blot: Calcium-sensing R/CaSR Antibody (HL 1499) [NB100-1830] - Detection of Calcium Sensing Receptor in transfected 293 cell lysate using NB 100-1830. ECL exposure, 5 minutes. In this photo, the protein has aggregated and thus the higher MW band as expected.



Western Blot: Calcium-sensing R/CaSR Antibody (HL 1499) [NB100-1830] - Analysis of Calcium Sensing Receptor expression in rat kidney tissue.



Simple Western: Calcium-sensing R/CaSR Antibody (HL 1499) [NB100-1830] - Image shows a specific band for Calcium Sensing Receptor in 0.5 mg/mL of HEK293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Wu W, Lee S, Chiang B et al. Urothelial Calcium-Sensing Receptor Modulates Micturition Function via Mediating Detrusor Activity and Ameliorates Bladder Hyperactivity in Rats Pharmaceuticals 2021-09-23 [PMID: 34681183] (Rat)

Liu L, Awoyemi AA, Fahy KE et al. Keratinocyte-derived microvesicle particles mediate Ultraviolet B radiation induced systemic immunosuppression The Journal of clinical investigation 2021-04-08 [PMID: 33830943] (FLOW, Human)

Papadopoulou A, Gole E, Moutafi A et al. Calcium sensing receptor in pregnancies complicated by gestational diabetes mellitus Placenta. 2014-06-02 [PMID: 24930987] (WB, Human)

Details:

Calcium Sensing Receptor antibody (clone HL 1499) used for WB in placentas from healthy women and the pregnancies complicated by gestational diabetes mellitus (GDM) - CaSR expression was found to be lowered in GDM group when compared to healthy placentas.

Szalat A, Benhamron S, Galitzer H et al. Treatment-Resistant Auto-Immune Hypoparathyroidism Associated with Celiac Disease. 90th Annual Meeting of the Endocrine Society (ENDO); San Francisco, CA; USA. 2008-06-15

Awata H et al. Interaction of the calcium-sensing receptor and filamin, a potential scaffolding protein. J Biol Chem;276(37):34871-9. 2001-09-14 [PMID: 11390379]

Handlogten ME et al. The Ca²⁺-sensing receptor activates cytosolic phospholipase A2 via a Gqalpha -dependent ERK-independent pathway. J Biol Chem;276(17):13941-8. 2001-04-27 [PMID: 11278341]



Procedures

Western Blot Protocol for Calcium Sensing Receptor Antibody (NB100-1830)

[[URL:https://www.novusbio.com/products/calcium-sensing-r-casr-antibody-hl-149...]] [[Caption:Calcium Sensing Receptor Antibody]]

Western Blot Protocol

1. Perform SDS-PAGE (3-8%) on samples to be analyzed, loading 25 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk in TBS for 2 hours at room temperature.
6. Dilute the mouse anti-calcium sensing receptor primary antibody (NB 100-1830) in blocking buffer and incubate 1 hour at room temperature.
7. Wash the membrane in water for 5 minutes and apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.
9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).
10. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.



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Products Related to NB100-1830

NB820-59231	Human Kidney Whole Tissue Lysate (Adult Whole Normal)
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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