

# Product Datasheet

## AGER Antibody (2A11) - Chimeric - Azide and BSA Free NBP3-11999-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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**NBP3-11999-0.2mg**

AGER Antibody (2A11) - Chimeric - Azide and BSA Free

**Product Information**

<b>Unit Size</b>	0.2 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2A11
<b>Preservative</b>	0.02% Proclin 300
<b>Isotype</b>	IgG Kappa
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS

**Product Description**

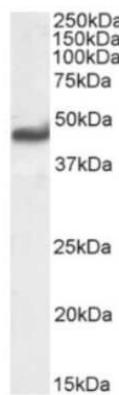
<b>Host</b>	Rabbit
<b>Gene ID</b>	177
<b>Gene Symbol</b>	AGER
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	2A11 is specific for the V-domain of human advanced glycosylation end product-specific receptor. It recognises both the glycosylated and non-glycosylated forms.
<b>Immunogen</b>	Human AGER protein.

**Product Application Details**

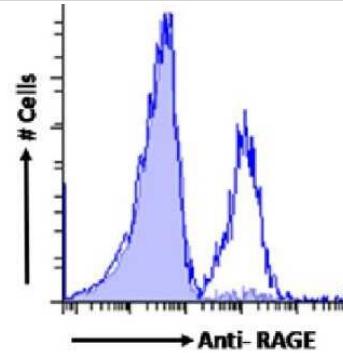
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Surface Plasmon Resonance
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Surface Plasmon Resonance
<b>Application Notes</b>	ELISA confirmed the specificity of 2A11 for the V-domain of AGER, with a binding affinity (Kd) of 7.6 nM. ELISA was also used to confirm that the binding of 2A11 to AGER is glycosylation independent. In SPR experiments the Kd of 2A11 binding to AGER was determined as 0.38 nM. Flow cytometry and immunochemistry were used to visualise the binding of 2A11 to HEK-AGER cells. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

## Images

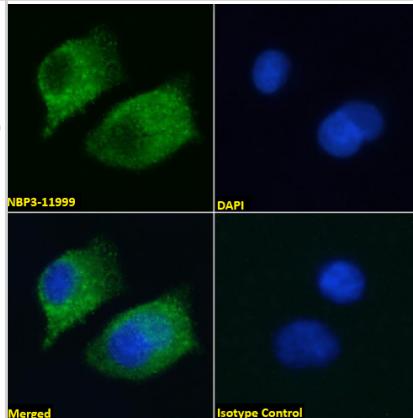
Western Blot: AGER Antibody (2A11) - Chimeric [NBP3-11999] - Human lung lysate (35ug protein in RIPA buffer) was resolved on an SDS PAGE gel and blots probed with the chimeric rabbit IgG version of 2A11 (NBP3-11999) at 0.03 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



Flow Cytometry: AGER Antibody (2A11) - Chimeric [NBP3-11999] - A549 cells were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, shaded line) or the rabbit IgG version of 2A11 (NBP3-11999, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor(R) 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



Immunocytochemistry /Immunofluorescence: AGER Antibody (2A11) - Chimeric - Azide and BSA Free [NBP3-11999] - Immunofluorescence analysis of paraformaldehyde fixed A549 cells stained with NBP3-11999 at 10 ug/ml followed by Alexa Fluor(R) 488 secondary antibody (2 ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom: NBP3-11999, DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody (NBP2-52638) followed by Alexa Fluor(R) 488 secondary antibody.





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## Products Related to NBP3-11999-0.2mg

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]
NBP2-57198PEP	AGER Recombinant Protein Antigen

## 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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