

# Product Datasheet

## Alkaline Phosphatase/ALPP Antibody NB110-3638SS

Unit Size: 0.025 ml

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

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Updated 6/15/2014 v.20.1

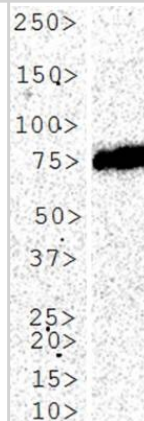
**NB110-3638SS**

## Alkaline Phosphatase/ALPP Antibody (8B6)

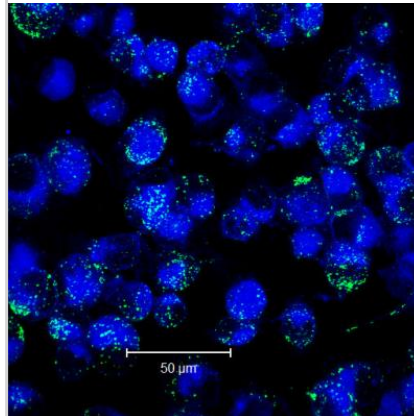
<b>Product Information</b>	
<b>Unit Size</b>	0.025 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	8B6
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein A purified
<b>Buffer</b>	Tris-glycine, 150 mM NaCl
<b>Target Molecular Weight</b>	70 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	250
<b>Gene Symbol</b>	ALPP
<b>Species</b>	Human
<b>Species Reactivity</b>	Human. Not yet tested in other species.
<b>Specificity/Sensitivity</b>	Alkaline Phosphatase, Placental - both Regan and Nagao isoenzymes. No cross reactivity with other isoenzymes of Alkaline Phosphatase.
<b>Immunogen</b>	Hep-2 cells with boosted surface expression of Alkaline Phosphatase, Placental. [UniProt# P05187].
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Radioimmunodiffusion
<b>Recommended Dilutions</b>	ELISA 1:100-1:2000, Flow Cytometry, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:200, Radioimmunodiffusion, Western Blot 1:1000
<b>Application Notes</b>	This Alkaline Phosphatase, Placental Antibody (8B6) is useful for Immunohistochemistry on paraffin-embedded sections and frozen sections, Immunocytochemistry/Immunofluorescence, ELISA, Western blot and Radioimmunodiffusion. In WB a band can be seen at ~70 kDa. For IHC, Proteolytic Induced Epitope Retrieval (PIER) is required. Use in Flow Cytometry reported in various pieces of scientific literature

## Images

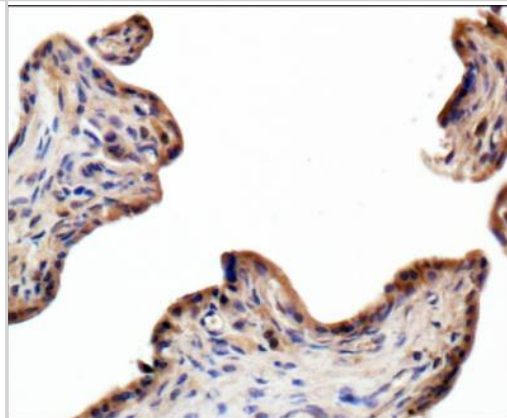
Western Blot: Alkaline Phosphatase, Placental Antibody (8B6) [NB110-3638] - Analysis of Alkaline Phosphatase (Placental) expression in JAR whole cell lysate.



Immunocytochemistry/Immunofluorescence: Alkaline Phosphatase/ALPP Antibody (8B6) [NB110-3638] - analysis of ALPP in MDA-MB-231 cells using an anti-ALPP antibody (blue - cell membrane, green - ALPP). Image from verified customer review.



Immunohistochemistry-Paraffin: Alkaline Phosphatase, Placental Antibody (8B6) [NB110-3638] - IHC staining of Alkaline Phosphatase (Placental) in human placenta using DAB with hematoxylin counterstain. Proteolytic Induced Epitope Retrieval (PIER) was used.



**Publications**

Kiem HP, Andrews RG, Morris J et al. Improved gene transfer into baboon marrow repopulating cells using recombinant human fibronectin fragment CH-296 in combination with interleukin-6, stem cell factor, FLT-3 ligand, and megakaryocyte growth and development factor. *Blood*. 1998 Sep 15 [PMID: 9731044] (FLOW)

Roberts SB, Ripellino JA, Ingalls KM et al. Non-amyloidogenic cleavage of the beta-amyloid precursor protein by an integral membrane metalloendopeptidase. *J Biol Chem*. 1994 Jan 28 [PMID: 8300647] (WB, Human)

Leitner K, Szlauer R, Ellinger I et al. Placental alkaline phosphatase expression at the apical and basal plasma membrane in term villous trophoblasts. *J Histochem Cytochem*. 2001 Sep [PMID: 11511684] (IHC-Fr, ICC/IF, Human)

Kesson AM, Fear WR, Williams L et al. HIV infection of placental macrophages: their potential role in vertical transmission. *J Leukoc Biol*. 1994 Sep [PMID: 8083596] (IHC-Fr, Human)

Forbes K, Desforges M, Garside R et al. Methods for siRNA-mediated reduction of mRNA and protein expression in human placental explants, isolated primary cells and cell lines. *Placenta*. 2009 Feb [PMID: 19012963] (ICC/IF, Human)

Johnstone ED, Chan G, Sibley CP et al. Sphingosine-1-phosphate inhibition of placental trophoblast differentiation through a G(i)-coupled receptor response. *J Lipid Res*. 2005 Sep [PMID: 15995175] (ICC/IF, Human)

Feehan C, Darlak K, Kahn J, et al. Shedding of the lymphocyte L-selectin adhesion molecule is inhibited by a hydroxamic acid-based protease inhibitor. Identification with an L-selectin-alkaline phosphatase reporter. *J Biol Chem*. 1996 Mar 22 [PMID: 8636132] (FLOW, Human)



## Procedures

### **Immunohistochemistry-Paraffin Protocol for Alkaline Phosphatase, Placental Antibody (8B6) (NB110-3638)**

Antigen Unmasking - Proteolytic Induced Epitope Retrieval (PIER):

Trypsin Working Solution (0.05%):

Trypsin stock solution (0.5%) -1 ml

Calcium chloride stock solution 1% - 1 ml Distilled Water - 8 ml Adjust pH to 7.8 with 1N NaOH.

Cover sections with trypsin working solution and incubate for 10-20 minutes at 37 degrees Celsius in humidified chamber (optimal incubation time may vary depending on tissue type and degree of fixation, and should be determined by user). Allow sections to cool at room temperature for 10 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.





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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.

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

