

# Product Datasheet

## IRS1 [p Ser307] Antibody - BSA Free NBP1-78078

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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**NBP1-78078**

IRS1 [p Ser307] Antibody - BSA Free

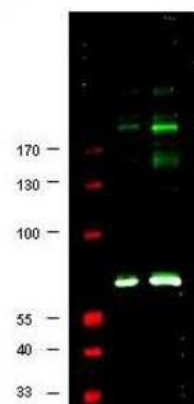
Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.01% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
<b>Description</b>	<p>This affinity-purified antibody is directed against the phosphorylated form of human IRS1 protein at the [p Ser307] residue. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
<b>Host</b>	Rabbit
<b>Gene ID</b>	3667
<b>Gene Symbol</b>	IRS1
<b>Species</b>	Human
<b>Reactivity Notes</b>	A BLAST analysis was used to suggest cross reactivity with IRS1 from human, mouse, rat, dog and vervet monkey based on 100% homology with the immunizing sequence. Partial reactivity is also expected against IRS1 from pig (94%), bovine (94%) and chicken (88%) sources. Reactivity of this antibody with IRS1 from other species is unknown.
<b>Specificity/Sensitivity</b>	This affinity-purified antibody is directed against the phosphorylated form of human IRS1 protein at the pS307 residue. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide. Reactivity occurs against human IRS1 pS307 protein and the antibody is specific for the phosphorylated form of the protein. Reactivity with non-phosphorylated human IRS1 is minimal by ELISA. A BLAST analysis was used to suggest cross reactivity with IRS1 from human, mouse, rat, dog and vervet monkey based on 100% homology with the immunizing sequence. Partial reactivity is also expected against IRS1 from pig (94%), bovine (94%) and chicken (88%) sources. Reactivity of this antibody with IRS1 from other species is unknown.
<b>Immunogen</b>	This affinity purified IRS1 [p Ser307] Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 290-320 of human IRS1 protein. (Uniprot: P35568)

**Product Application Details**

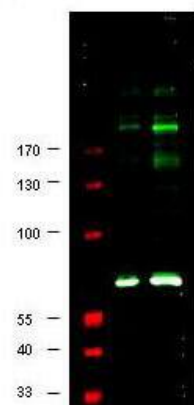
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:250-1:1500, ELISA 1:2000-1:10000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
<b>Application Notes</b>	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding to phosphorylated IRS1 protein by western blotting in the appropriate cell lysate or extract. Minimal reactivity is observed against the non-phosphorylated form of the immunizing peptide. This antibody is phospho specific for pS307 of IRS1 protein.

## Images

Western Blot: IRS1 [p Ser307] Antibody [NBP1-78078] - Band at ~180 kDa believed to represent phosphorylated IRS1 (arrowhead). Lane 1 shows staining of human 293 cell lysate. Lane 2 shows staining of 293 cell lysate. The pronounced staining of the band at 180 kDa is not seen when the antibody was pre-incubated with immunizing peptide prior to reaction. The identity of the intensely reactive bands at ~70 kD in both lane 1 and 2 is unknown, although these bands were also competed out by pre-incubation with the immunizing peptide. (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red).



Western blot using Affinity Purified anti-IRS1 pS307 antibody shows detection of a band at ~180 kDa believed to represent phosphorylated IRS1 (arrowhead). Lane 1 shows staining of human 293 cell lysate



## Publications

Rufinatscha K, Radlinger B, Dobner J et al. Dipeptidyl peptidase-4 impairs insulin signaling and promotes lipid accumulation in hepatocytes. *Biochem. Biophys. Res. Commun.* 2017-02-16 [PMID: 28213130] (Human)



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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
NBP2-68666PEP	IRS1 Recombinant Protein Antigen

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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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