

# Product datasheet for TA392507M

## **IRS1 Rabbit Polyclonal Antibody**

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:Primary AntibodiesApplications:IF, WBRecommended Diluto:WB:110000-1120000 IF 1150-11100Reactivity:HumanHost:RabitBoby:IgGIsotype:IgGClonality:Synthetic pertised on the prima on the		
Accommended DilutionWB: 1:10000-1:20000 IF 1:50 - 1:100Reactivity:HumanHost:RabbitIsotype:IgGClonality:PolyclonalImmunogen:Synthetic peptide, corresponding to Human IRS-1.Specificity:IRS-1 (S1101) polyclonal antibody detects endogenous levels of IRS-1 protein.Formulation:Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.Concentration:Img/mlConjugation:UnconjugatedStorage:Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.Stability:1 yearPredicted Protein Size:-190 kDaGene Name:Insulin receptor substrate 1Database Link:Entrez Gene 3667 Human P35568Background:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor sh1/2-domain contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain contains multiple tyrosine phosphorylation of IRS-1 at Ser1011 is mediated by SIK-2, an emember of the AMPK family. The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser307 of IRS-1 is phosphorylated by JNK and IKK while Ser789 is phosphorylation of IRS-1 at Ser307 of IRS-1 at Ser1001 is mediated by SIK-2, and emethan inhibition of insulin isignaling in the cell, suggesting a potential emethan inhibition of insulin signaling in the cell, suggesting a potential emethan inhibition of insulin signaling in the cell, suggesting a potential emethan inhibition of insulin signaling in the cell, suggesting a potential emethan inhibition of insu	Product Type:	Primary Antibodies
Reactivity:HumanHost:RabitIsotype:IgGClonality:PolyclonalImmunogen:Synthetic perptide, corresponding to Human IRS-1.Specificity:IRS-1 (S1010) polyclonal antibody detects endogenous levels of IRS-1 protein.Formulation:Rabit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.Concentration:Ing/mlConjugation:UnconjugatedStorage:Sice at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.Stability:19arPredicted Protein SizeSinterceptor substrate 1Background:Interceptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor substrate 1 specificity is one phosphorylation motifs that serve as docking sites for Sinsulin , IRS-1 is phosphorylated by JNK and IKK while Ser788 is phosphorylated by SIK-2, and Ser63/GS9, respectively, Phosphorylation profiles-1 substrate 1000 sites, Ser63/GS9, respectively, Phosphorylation pr	Applications:	IF, WB
Host:RabbitIsotype:IgGClonaliy:PolyclonalImmunogen:Synthetic peptide, corresponding to Human IRS-1.Specificity:IRS-1 (S1101) polyclonal antibody detects endogenous levels of IRS-1 protein.Formulation:Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.Concentration:1mg/mlConjugation:UnconjugatedStorage:Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.Stability:1 yearPredicted Protein Size:-190 kDaGene Name:Insulin receptor substrate 1Database Link:Entrez Gene 3667 Human P35568Background:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation of IRS-1 at Ser12101 is mediated by JNK and IKK while Ser789 is phosphorylation of IRS-1 at Ser121 and Ser636/639, respectively. Phosphorylation of IRS-1 at Ser1101 is mediated by PKC0 and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.	<b>Recommended Dilution:</b>	WB: 1:10000~1:20000 IF 1:50 - 1:100
Isotype:IgGClonality:PolyclonalImmuogen:Synthetic peptide, corresponding to Human IRS-1.Specificity:IRS-1 (S1101) polyclonal antibody detects endogenous levels of IRS-1 protein.Formulation:Rabbit IgG.1 mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.Concentration:Img/mlCongugation:UnconjugatedStorage:Stora 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.Stability:1 yearPredicted Protein Size:-109 kDaGene Name:Insulin receptor substrate 1Database Link:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptorNinsulin. Receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptorStarger:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptorStarger:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptorStarger:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptorStarger:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptorStarger:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor substrate of the AMPK damily. The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser1101 is mediated by SNK and IKK while Ser789 is phosphorylation of IRS-1 at Ser1101 is mediated by SNK and insulin receils and ser636/G39, respectively. Phosphorylation of IRS-1 at Ser1101 is mediated by SNK and insulin signaling in the cell, suggesting a potential mechanism insulin for insulin resi	Reactivity:	Human
Clonality:PolyclonalImmunogen:Synthetic peptide, corresponding to Human IRS-1.Specificity:IRS-1 (S1101) polyclonal antibody detects endogenous levels of IRS-1 protein.Formulation:Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.Concentration:Img/mlConjugation:UnconjugatedStorage:Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.Stability:1 yearPredicted Protein Size:~190 kDaGene Name:insulin receptor substrate 1Database Link:Entrez Gene 3667 Human P35568Background:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threenine phosphorylation sites. Ser307 of IRS-1 i sphosphorylated by JNK and IKK while Ser789 is phosphorylated by SIK-2, a member of the AMPK family. The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser612 and Ser636/639, respectively. Phosphorylation of IRS-1 at Ser1011 is mediated by PKC6 and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.	Host:	Rabbit
Immunogen:Synthetic peptide, corresponding to Human IRS-1.Specificity:IRS-1 (S1101) polyclonal antibody detects endogenous levels of IRS-1 protein.Formulation:Rabbit IgG. 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.Concentration:Img/mlConjugation:UnconjugatedStorage:Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.Stability:1 yearPredicted Protein Size:-190 kDaGene Name:Entrez Gene 3667 Human P35568Background:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation of IRS-1 at serof12 and Ser63/639, respectively. Phosphorylation of IRS-1 at Ser1101 is mediated by PKC0 and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.	lsotype:	lgG
Specificity:IRS-1 (S1101) polyclonal antibody detects endogenous levels of IRS-1 protein.Formulation:Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.Concentration:1mg/mlConjugation:UnconjugatedStorage:Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.Stability:1 yearPredicted Protein Size:~ 190 kDaGene Name:insulin receptor substrate 1Database Link:Entrez Gene 3667 Human P35568Background:Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation of IRS-1 at Ser612 and Ser636/639, respectively. Phosphorylation of IRS-1 at Ser1101 is mediated by PKC0 and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.	Clonality:	Polyclonal
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Synonyms: Insulin receptor substrate 1; IRS-1; IRS1	Background:	kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation sites. Ser307 of IRS-1 is phosphorylated by JNK and IKK while Ser789 is phosphorylated by SIK-2, a member of the AMPK family. The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser612 and Ser636/639, respectively. Phosphorylation of IRS-1 at Ser1101 is mediated by PKCθ and results in an inhibition of insulin signaling in the cell, suggesting a potential
	Synonyms:	Insulin receptor substrate 1; IRS-1; IRS1

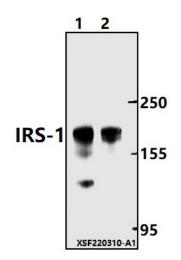


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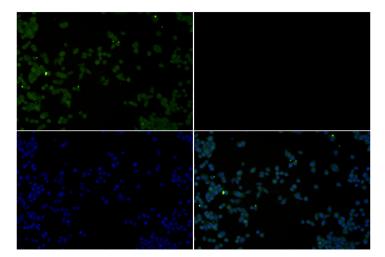
Note:

For research use only, not for use in diagnostic procedure.

## **Product images:**



Western blot (WB) analysis of IRS-1 (S1101) polyclonal antibody at 1:10000 dilution Lane1:HepG2 whole cell lysate(40ug) Lane2:MCF-7 whole cell lysate(20ug)



Immunofluorescence analysis of MCF-7 cells using IRS-1 antibody at dilution of 1:100.

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