

Rabbit AS160 Polyclonal Antibody | anti-AS160 antibody

AS160 Antibody

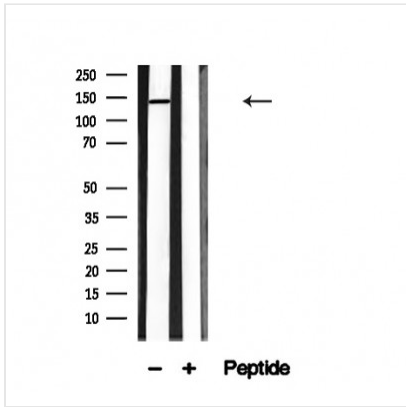
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329528	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (92%)	ELISA, Western Blot

PRODUCT SYNONYMS

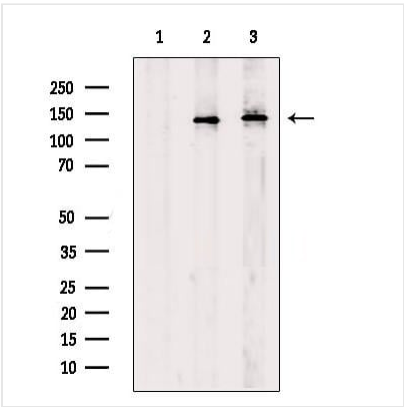
AS160; Polyclonal Antibody; AS160 Antibody; Acrg embryonic lethality (mouse) minimal region ortholog; Acrg embryonic lethality minimal region ortholog; Acrg embryonic lethality mouse minimal region ortholog; Akt substrate of 160kDa; AS 160; BUB2; CDC16; KIAA0603; NIDDM5; TBC (Tre 2 BUB2 CDC16) domain containing protein; TBC Tre 2 BUB2 CDC16 domain containing protein; TBC1 D4; TBC1 domain family member 4; Tbc1d4; TBCD4_HUMAN; Tre-2; anti-AS160 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (92%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	AS160 Antibody detects endogenous levels of total AS160. Tissue Specificity: Widely expressed. Isoform 2 is the highest overexpressed in most tissues. Isoform 1 is highly expressed in skeletal muscle and heart, but was not detectable in the liver nor in adipose tissue. Isoform 2 is strongly expressed in adrenal and thyroid gland, and also in lung, kidney, colon, brain and adipose tissue. Isoform 2 is moderately expressed in skeletal muscle. Expressed in pancreatic Langerhans islets, including beta cells (at protein level). Expression is decreased by twofold in pancreatic islets in type 2 diabetes patients compared to control subjects. Up-regulated in T-cells from patients with atopic dermatitis.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-AS160 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AS160, corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by AKT1; insulin-induced. Also phosphorylated by AMPK in response to insulin. Insulin-stimulated phosphorylation is required for SLC2A4/GLUT4 translocation. Has no effect on SLC2A4/GLUT4 internalization. Physiological hyperinsulinemia increases phosphorylation in skeletal muscle. Insulin-stimulated phosphorylation is reduced by 39% in type 2 diabetic patients.
Subcellular Location	Cytoplasm. Note: Isoform 2 shows a cytoplasmic perinuclear localization in a myoblastic cell line in resting and insulin-stimulated cells.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of AS160 in lysates of RAW 264.7 , using AS160 Antibody(AF4682).



WB (Western Blot)
Western blot analysis of extracts from various samples, using AS160 Antibody. Lane 1: HepG2 cells, blocked with antigen-specific peptides, Lane 2: HepG2 cells, Lane 3: K562 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-AS160 antibody	May act as a GTPase-activating protein for RAB2A, RAB8A, RAB10 and RAB14. Isoform 2 promotes insulin-induced glucose transporter SLC2A4/GLUT4 translocation at the plasma membrane, thus increasing glucose uptake.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	114688046
NCBI GeneID	9882
NCBI Accession #	NP_055647.2
NCBI GenBank Nucleotide #	NM_014832.2
UniProt Accession #	O60343; Q5W0B9; Q68D14; A7E2X8; B4DU25; B4E235; B6ETN8; B6ETN9
Molecular Weight	146,563 Da
NCBI Official Full Name	TBC1 domain family member 4
NCBI Official Synonym Full Names	TBC1 domain family, member 4
NCBI Official Symbol	TBC1D4
NCBI Official Synonym Symbols	AS160
NCBI Protein Information	TBC1 domain family member 4; akt substrate of 160 kDa; Acrg embryonic lethality minimal region ortholog; TBC (Tre-2, BUB2, CDC16) domain-containing protein
UniProt Protein Name	TBC1 domain family member 4
UniProt Gene Name	TBC1D4
UniProt Synonym Gene Names	AS160; KIAA0603; AS160
UniProt Entry Name	TBCD4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.