

Rabbit AS160 Polyclonal Antibody | anti-AS160 antibody

Phospho-AS160 (Ser588) Antibody

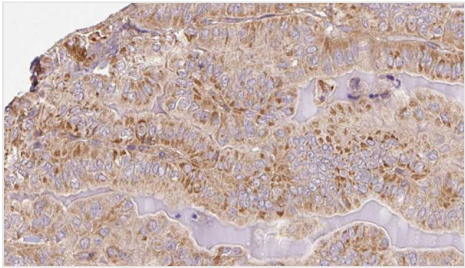
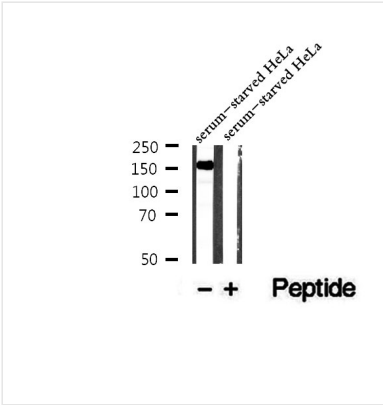
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321302	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AS160; Polyclonal Antibody; Phospho-AS160 (Ser588) Antibody; Acrg embryonic lethality (mouse) minimal region ortholog; Acrg embryonic lethality minimal region ortholog; Acrg embryonic lethality mouse minimal region ortholog; Akt substrate of 160 kDa; 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
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-AS160 (Ser588) antibody detects endogenous levels of AS160.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1290
Applicable Applications for anti-AS160 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AS160 around the phosphorylation site of Ser588.
Subcellular Location	Cytoplasm. Isoform 2 shows a cytoplasmic perinuclear localization in a myoblastic cell line in resting and insulin-stimulated cells.
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.
Predicted Cross Reactivity	Bovine, Horse, Rabbit, Dog, Chicken, Xenopus
Similarity	Bovine (100%), Horse (92%), Rabbit (100%), Dog (92%), Chicken (100%), Xenopus (92%)
Conjugation	Unconjugated
Epitope	Phospho Ser588
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321302 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of serum-starved HeLa cells, using Phospho-AS160 (Ser588) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-AS160 antibody	Function: 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. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	557786188
NCBI GeneID	9882
NCBI Accession #	NP_001273587.1
NCBI GenBank Nucleotide #	NM_001286658.2
UniProt Accession #	O60343; Q5W0B9; Q68D14; A7E2X8; B4DU25; B4E235; B6ETN8; B6ETN9
Molecular Weight	Observed: 160 kDa Predicted: 147 kDa
NCBI Official Full Name	TBC1 domain family member 4 isoform 2
NCBI Official Synonym Full Names	TBC1 domain family member 4
NCBI Official Symbol	TBC1D4
NCBI Official Synonym Symbols	AS160; NIDDM5
NCBI Protein Information	TBC1 domain family member 4
UniProt Protein Name	TBC1 domain family member 4
UniProt Gene Name	TBC1D4
UniProt Synonym Gene Names	AS160; KIAA0603; AS160

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.