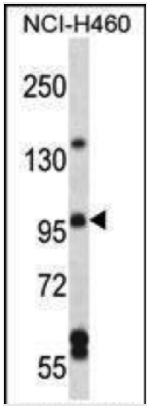
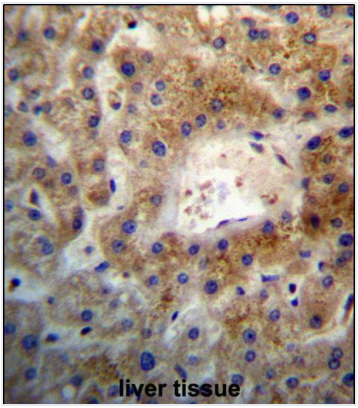
SGEF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SGEF, Polyclonal Antibody
Full Product Name	SGEF, ID (ARHGEF26, SGEF, Rho guanine nucleotide exchange factor 26, SH3 domain-containing guanine exchange factor) (MaxLight 490)
Product Gene Name	anti-SGEF antibody
Product Synonym Gene Name	ARHGEF26
Product Synonym Names	ARHGEF26; SGEF; Rho guanine nucleotide exchange factor 26; SH3 domain-containing guanine exchange factor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human SGEF.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	617552
3D Structure	ModBase 3D Structure for Q96DR7
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 378-406 in the central terminal region of human SGEF.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-SGEF antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-SGEF antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), FLISA
Application Notes for anti-SGEF antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SGEF antibody	MBS6346851 is an antibody targeting SGEF. Also known as SGEF, ID (ARHGEF26, SGEF, Rho guanine nucleotide exchange factor 26, SH3 domain-containing guanine exchange factor) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-SGEF antibody	1. Yamada, S., et al. Oncogene 23(35):5901-5911(2004). 2. Ellerbroek, S.M., et al. Mol. Biol. Cell 15(7):3309-3319(2004). 3. Qi, H., et al. Endocrinology 144(5):1742-1752(2003).
Other Notes	Small volumes of anti-SGEF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SGEF antibody
Western Blot analysis in NCI-H460 cell line lysates (35ug/lane), usingMBS6013565. This demonstrates that MBS6013565 detected the SGEF protein (arrow).



Immunohistochemistry (IHC) of anti-SGEF antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue, using MBS6013565 followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MBS6013565 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SGEF. It may not necessarily be applicable to this product.

NCBI GI #	194473700
NCBI GeneID	26084
NCBI Accession #	NP_056410.3
UniProt Primary Accession #	Q96DR7
UniProt Related Accession #	Q96DR7
GenBank Nucleotide #	NP_056410.3
NCBI Official Full Name	rho guanine nucleotide exchange factor 26 isoform 1
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor 26
NCBI Official Symbol	ARHGEF26
NCBI Official Synonym Symbols	SGEF; CSGEF; HMFN1864
UniProt Protein Name	Rho guanine nucleotide exchange factor 26
UniProt Synonym Protein Names	SH3 domain-containing guanine exchange factor
UniProt Gene Name	ARHGEF26
UniProt Synonym Gene Names	SGEF
NCBI Protein Information	rho guanine nucleotide exchange factor 26
NCBI Summary for SGEF	This gene encodes a member of the Rho-guanine nucleotide exchange factor (Rho-GEF) family. These proteins regulate Rho GTPases by catalyzing the exchange of GDP for GTP. The encoded protein specifically activates RhoG and plays a role in the promotion of macropinocytosis. Underexpression of the encoded protein may be a predictive marker of chemoresistant disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]
UniProt Comments for SGEF	Activates RhoG GTPase by promoting the exchange of GDP by GTP. Required for the formation of membrane ruffles during macropinocytosis. Required for the formation of cup-like structures during trans-endothelial migration of leukocytes. In case of Salmonella enterica infection, activated by SopB, which induces cytoskeleton rearrangements and promotes bacterial entry.
Research Articles on SGEF	**1.** SGEF plays a role in activating RhoG during invadopodia disassembly

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