Product Datasheet

BLVRB Antibody

Catalog No: #43993

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

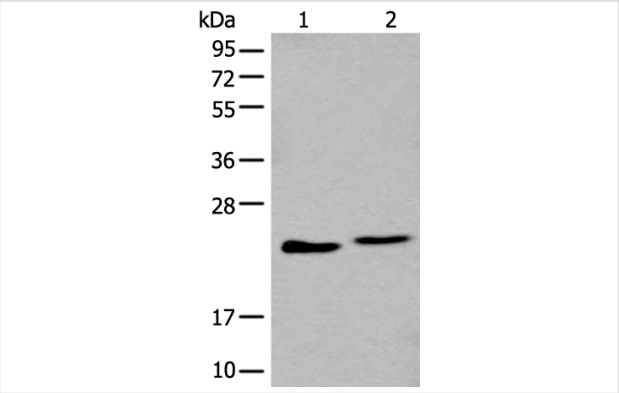
Product Name	BLVRB Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	IHC WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total BLVRB protein.
Immunogen Type	peptide
Immunogen Description	Synthetic peptide of human BLVRB
Target Name	BLVRB
Other Names	FLR; BVRB; SDR43U1; HEL-S-10
Accession No.	Swiss-Prot#: P30043NCBI Gene ID: 645
Uniprot	P30043
GeneID	645;
Calculated MW	22kd
Concentration	1.6mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C

Application Details

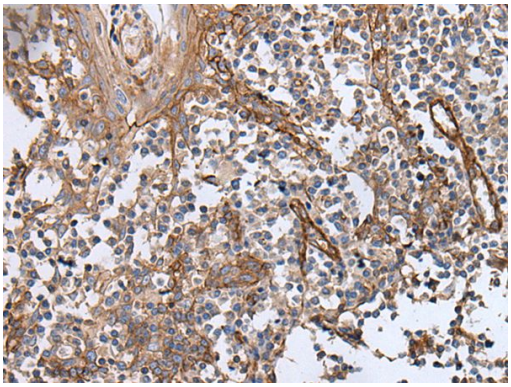
Western blotting: 1:500-2000

Immunohistochemistry: 1: 100-200

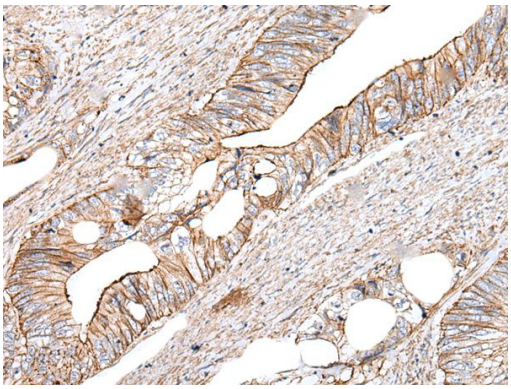
Images



Gel: 12%SDS-PAGE
Lysate: 40 µg, Lane 1-2: A549 and K562 cell lysate,
Primary antibody:BLVRB antibody at dilution 1/600,
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution,
Exposure time: 40 seconds



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using BLVRB Antibody at dilution 1/100, on the right is treated with synthetic peptide. (Original magnification: x200)



The image on the left is immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using BLVRB Antibody at dilution 1/100, on the right is treated with synthetic peptide. (Original magnification: x200)

Background

BLVRB (biliverdin reductase B or BVR-B), also known as flavin reductase (FR), NADPH-dependent diaphorase, Biliverdin-IX B‘Γ -reductase or green heme-binding protien (GHBP) is an enzyme involved in fetal heme metabolism. It is dependent on NADPH and is responsible for catalyzing the transfer of electrons to flavins from reduced pyridine nucleotides. BLVRB exists as a monomer, localizes to the cytoplasm and is highly expressed in fetal liver and adult erythrocytes and, to a lesser extent, in heart, lung, cerebrum and adrenal gland. In liver, BLVRB functions to convert biliverdin (isoforms IXB‘Γ , IX? and IX?) to bilirubin. BLVRB contains one binding site for all of its substrates and predominantly interacts with them through hydrophobic interactions. BLVRB also exhibits ferric reductase activity. In addition, it is commonly used as a reliable marker for NOS.

Note: This product is for in vitro research use only