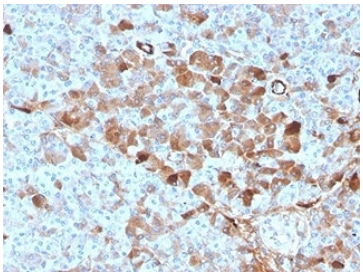
Vitamin D binding protein Antibody / VDBP / GC [clone VDBP/4482] (V9504)

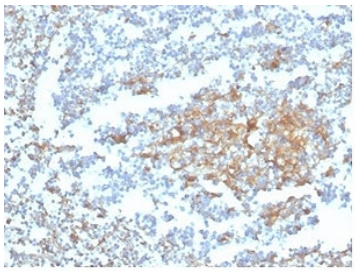
Catalog No.	Formulation	Size
V9504-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9504-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9504SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

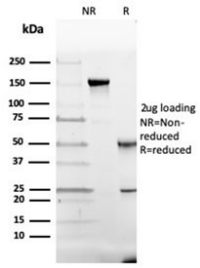
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	VDBP/4482
Purity	Protein A/G affinity
UniProt	P02774
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Vitamin D binding protein antibody is available for research use only.



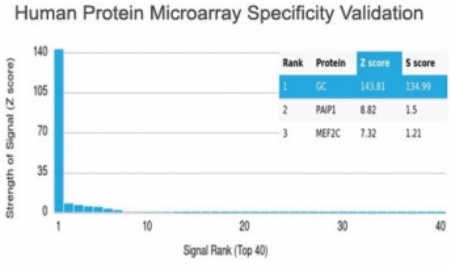
Vitamin D binding protein Antibody Pancreas IHC. Immunohistochemistry staining of FFPE human pancreatic tissue with Vitamin D binding protein antibody (clone VDBP/4482) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Vitamin D binding protein Antibody Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with Vitamin D binding protein antibody (clone VDBP/4482) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Vitamin D binding protein antibody (clone VDBP/4482) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Vitamin D binding protein antibody (clone VDBP/4482). These results demonstrate the foremost specificity of the VDBP/4482 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Vitamin D-binding protein antibody detects VDBP, a multi-functional serum protein that binds to the plasma membranes of numerous cell types and mediates a variety of cellular functions. The locus of the DBP protein (also known as group-specific component protein or GC) is located at human chromosome 4q13.3. DBP functions in organ-specific transportation of vitamin D and its metabolites to the various target organs of the vitamin D endocrine system. In addition, DBP has immunomodulatory properties and is able to bind to the surface of leukocytes. DBP binds to the plasma membrane through a chondroitin sulfate proteoglycan. DBP serves as a co-chemotactic factor for C5a to enhance the chemotactic activity of C5a. DBP can also bind to globular Actin with high affinity and is involved in the clearance of Actin from the blood. DBP plays an important role in osteoclast differentiation. The diverse cellular functions of DBP require its cell surface binding ability to mediate different biological processes.

For highly selective detection of VDBP in vitamin D transport and endocrine metabolism studies, see our VDBP Antibody / Vitamin D Binding Protein Antibody clone VDBP/4481 featuring protein microarray specificity validation.

Application Notes

Optimal dilution of the Vitamin D binding protein antibody should be determined by the researcher.

Immunogen

A portion of amino acids 35-175 was used as the immunogen for the Vitamin D binding protein antibody.

Storage

Aliquot the Vitamin D binding protein antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.