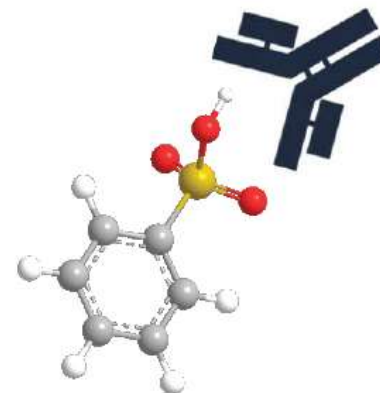


Monoclonal antibody recognizing phenyl sulfate

Able to simply diagnose diabetic nephropathy!



Overview

Phenyl sulfate (PS) is known to be a renal disease marker.

After its ingestion, phenol is produced from tyrosine due to the intestinal bacteria action and it is absorbed in the intestines, then metabolized to PS in the liver.

For healthy individuals, PS is excreted from the body as urine, but when kidney function is impaired, PS is not excreted and accumulates in the body.

So far, PS detection was done using LC-MS or TOFMS equipment so the conventional method was not done simply. The inventor succeeded to product an antibody against PS. Using this antibody, it may be possible to easily detect PS, such as by ELISA method.

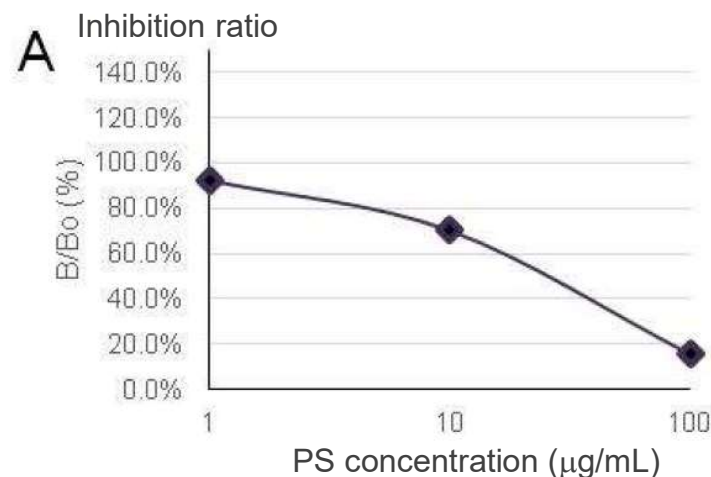
Product Application

- ELISA kit. Biological samples are blood plasma, serum and urine.
- Antibody test paper

IP Data

IP No. : JP6815632
 Inventor : TOMIOKA Yoshihisa, TSUKAMOTO Hiroki, KANEMITSU Yoshitomi, MATSUMOTO Yotaro, KONDO Yoshinori, ABE Takaaki
 Admin No. : T16-063

Features · Outstandings



Results of inhibition ELISA method by using biotinylated labeled antibody and blood plasma containing phenyl sulfate.

Related Works

[1] Biol Pharm Bull, 2018; 41(8):1170-1177.
 doi: 10.1248/bpb.b17-00925

Contact