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AKR1C2 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant AKR1C2.
Catalog # AT1093a

Product Information

Application	WB, E
Primary Accession	P52895
Other Accession	BC063574
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3C11
Calculated MW	36735

Additional Information

Gene ID	1646
Other Names	Aldo-keto reductase family 1 member C2, 1---, 3-alpha-HSD3, Chlordecone reductase homolog HAKRD, Dihydrodiol dehydrogenase 2, DD-2, DD2, Dihydrodiol dehydrogenase/bile acid-binding protein, DD/BABP, Trans-1, 2-dihydrobenzene-1, 2-diol dehydrogenase, Type III 3-alpha-hydroxysteroid dehydrogenase, AKR1C2, DDH2
Target/Specificity	AKR1C2 (AAH63574, 224 a.a. ~ 323 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	AKR1C2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

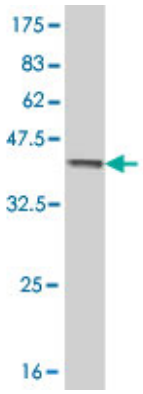
Background

This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14.

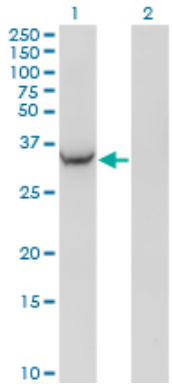
References

1.Aldo-keto reductases AKR1C1, AKR1C2 and AKR1C3 may enhance progesterone metabolism in ovarian endometriosis.Hevir N, Vouk K, Sinkovec J, Ribic-Pucelj M, Lanisnik Rizner T.Chem Biol Interact. 2011 Jan 11. [Epub ahead of print]2.Aldo-keto reductase 1C2 fails to metabolize doxorubicin and daunorubicin in vitro.Takahashi RH, Bains OS, Pfeifer TA, Grigliatti TA, Reid RE, Riggs KW.Drug Metab Dispos. 2008 Jun;36(6):991-4. Epub 2008 Mar 5.

Images

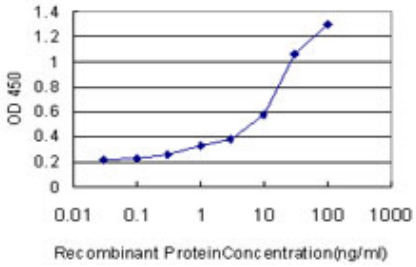


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of AKR1C2 expression in transfected 293T cell line by AKR1C2 monoclonal antibody (M03), clone 3C11.

Lane 1: AKR1C2 transfected lysate(36.7 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged AKR1C2 is approximately 0.3ng/ml as a capture antibody.