

**Mouse Anti-Human Transketolase-like-1,
(TKTL1) monoclonal**

CatNo

BMU3012

BatchNo:

Despatch Date:

Storage: 2-8°C lyophilised

After Reconstitution: 2-8°C for 1 month

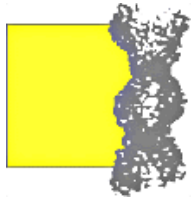
-20°C for longer

Clone Number:	JFC12T10
Volume/Quantity:	0.2 mg
Reconstitution:	Reconstituted with 0.2 ml with HistoLonglife Antibody Dilution Buffer (CatNo. E114FG).
Product Form:	Purified IgG - lyophilised
Preparation:	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer:	Phosphate buffered saline
Approx. Protein Concentrations:	IgG concentration 1.0 mg/ml
Immunogen:	C-terminal fragment of the recombinant TKTL1
Isotype:	IgG2b (Mouse)
Specificity:	BMU3012 specifically recognizes transketolase TKTL1 and has no cross-reactivity with TKT and TKTL2 transketolase. TKTL1 is found in tissues affected by chronic diabetes complications and neurodegenerative diseases (e.g. Wernicke-Korsakoff syndrome, Alzheimer's disease). It could be shown that the TKTL1 transketolase is significantly up regulated in epithelial malignancies. A strong TKTL1 protein expression was correlated to invasive urothelial, colon and ovarian tumours and to poor patient's outcome (1; 2; 3).
Species Cross Reactivity:	Not tested.

Applications:	Suggested Working Dilution	
FlowCytometry	Not tested	
Immunohistology-frozen*	Yes	1/100 -1/200
Immunohistology-paraffin*	Yes	1/50 -1/200
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Not tested	
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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Immunohistology

Pre-treatment:	*This product requires antigen retrieval using heat treatment prior to staining of paraffin and cryostat sections. Sodium Citrate buffer pH6.0 is recommended for this purpose.
Positive Control:	Invasive urothelial- colon- or ovarial carcinoma.
Recommended Secondary Reagents:	VECTASTAIN Elite ABC-Kit Mouse IgG-POD Labelling (LINARIS CatNo PK-6002) DAB-Substrate for POD (LINARIS CatNo E108) or HistoGreen-Substrate for POD (LINARIS CatNo E109) VECTASTAIN ABC-Kit Mouse IgG AP Labelling (LINARIS CatNo AK-5002) VECTOR Red Substrate for AP (LINARIS CatNo SK-5100)
Recommended Negative Controls:	Mouse IgG2b Negative Control (LINARIS CatNo ITC0691)

References

1. Coy F.J. et al. (2005). Mutations in the Transketolase-like gene TKTL1: Clinical Implications for Neurodegenerative Diseases, Diabetes and Cancer. Clin. Lab. 51: 257 – 273.
2. Földi M. et al. (2005): The transketolase protein TKTL1 is overexpressed in ovarian carcinoma. Abstract Trafo Meeting.
3. Langbein S. et al: (2005). Overexpression of TKTL1 transketolase correlates with tumor progression in urothelial cancer. Abstract of the ESMO conference.

Storage Conditions:	Prior to reconstitution store at 2-8°C. Reconstituted antibody is stable for at least one month when stored at 2-8°C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life:	12 months from date of reconstitution.
Health and Safety Information:	(A full Health and Safety assessment is available upon request)

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For Research purposes only. Not for therapeutic or diagnostic use.