

Supplemental figure 1:

Upper panel: IHC for Thyroglobulin (TG), PAX-8, Thyroid transcription factor 1 (TTF-1) and Sodium iodine symporter (NIS) on thyroid tissues treated for 10 days with 5 mg/kg of PD-0325901.

Lower Panel: Score of the depicted IHC, individual values with mean and SEM (0= Negative, 1=weak positive, 2=Positive, 3=strongly positive, 4=very strong positive).

Supplemental Material and Methods:

IHC stains were obtained by automatized stainings with a Leica immunostainer following the protocol described here: Berezowska S, Galván JA. Methods Mol Biol. 2017;1560:189-194. doi: 10.1007/978-1-4939-6788-9_13. PMID: 28155154.

The following antibodies and specific conditions were used:

Antibody	Dilution	Antigen retrieval	Host	incubatin time	Polymer	DAB chromogen(*)	Comany	Ref. Number
TG	1:10000	Tris buffer 30 min 95º	Rb	15min	8min	8min	Dako	A0251
PAX8	1:1200	Tris buffer 30 min 95º	Rb	15min	8min	8min	Proteintech	10336-1-AP
TTF1	1:50	Tris buffer 30 min 95º	Rb	30min	15min	10min	Santa Cruz	sc-13040
NIS	1:50	Tris buffer 30 min 95º	Rb	30min	15min	10min	Abbiotec	250552
Visualization Kits								
Bond Polymer		Leica Biosystems	DS9800					
Refine Detection (*)								
Autostainer								
Leica BOND RX		Leica Biosystems						

	total (ATC)	BRAF	frequency	PI3K	frequency	BRAF/PI3K	frequency
Pozdeyev et al.	196	84	43%	29	15%	23	12%
Kunstman et al.	22	6	27%	2	9%	2	9%
Landa et al.	33	15	45%	6	18%	5	15%

37

15%

30

12%

42%

Supplemental table 1:

251

TOTAL

Analysis of BRAF and PI3K mutations occurrence in thyroid cancers.

105

Data extracted from:

Pozdeyev N, Gay LM, Sokol ES, et al. Genetic analysis of 779 advanced differentiated and anaplastic thyroid cancers. Clin Cancer Res. 2018.

Landa I, Ibrahimpasic T, Boucai L, et al. Genomic and transcriptomic hallmarks of poorly differentiated and anaplastic thyroid cancers.

J Clin Invest. 2016 and Kunstman JW, Christofer Juhlin C, Goh G, et al. Characterization of the mutational landscape of anaplastic thyroid cancer via whole-exome sequencing. Hum Mol Genet. 2015.